November 4, 2020

RECEIVED
By PSTB at 3:48 pm, Nov 04, 2020

Ms. Renee Romero
New Mexico Environment Department
Petroleum Storage Tank Bureau
1914 West Second Street
Roswell, New Mexico 88201-1712

Re: Second Quarter Groundwater Monitoring Report
Former Y Station, 721 Commerce Way, Clovis, New Mexico
Facility #53742, Release ID #4746, WPID #4133

Dear Ms. Romero:

Daniel B. Stephens & Associates, Inc. (DBS&A) is pleased to submit this report documenting the second quarter groundwater monitoring activities conducted at the above-referenced site from September 9 through 16, 2020, in accordance with work plan identification (WPID) #4133. All work was completed in accordance with the requirements of Part 119 of the New Mexico Petroleum Storage Tank Regulations and DBS&A standard operating procedures.

DBS&A plans to invoice a reduced amount of $28,100.63 for Deliverable ID #4133-3 (including New Mexico gross receipts tax), because a groundwater sample was not collected for laboratory analysis from monitor well BW-5 due to the presence of light nonaqueous-phase liquid.

Please contact us at (505) 822-9400 if you have any questions or require additional information.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

Thomas Golden, P.E.
Project Engineer

Patrice N. Feltman, P.G.
Geologist

PNF/TG/ed
Attachments

Daniel B. Stephens & Associates, Inc.
6020 Academy Rd. NE, Suite 100 505-822-9400
Albuquerque, NM 87109 FAX 505-822-8877

Second Quarter
Groundwater Monitoring Report
Former Y Station
721 Commerce Way, Clovis, New Mexico
Facility ID #53742, Release ID #4746

Prepared for **New Mexico Environment Department**
Petroleum Storage Tank Bureau
Roswell, New Mexico

November 4, 2020

Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109

Table of Contents

List of Figures

List of Tables

Table

List of Appendices

Appendix

Second Quarter Groundwater Monitoring Report
Former Y Station
721 Commerce Way, Clovis, New Mexico
Facility ID #53742, Release ID #4746

1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this report documenting results of second quarter groundwater monitoring activities at the Former Y Station State Lead site (the site), located at 721 Commerce Way in Clovis, New Mexico (Figure 1). All field activities were performed in accordance with DBS&A standard operating procedures (SOPs) and work plan identification (WPID) #4133 (DBS&A, 2019), approved by the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) on February 19, 2020 (NMED, 2020). The report was prepared in accordance with applicable sections of Part 119 of the Petroleum Storage Tank Regulations (PSTR).

1.1 Site Background

Initial site investigation activities completed by the previous consultant in 2011 were driven by the discovery of a release during a tank pull at the Allsup's No. 320 site (Allsup's), located at the corner of Prince and 21st Streets. Subsequent investigations from 2012 to 2016 revealed a large dissolved-phase hydrocarbon plume south of the Allsup's, centered near the intersection of Prince Street and Commerce Way. Interviews with local residents and inspection of public records by the previous consultant revealed that a Shamrock-brand fueling station was formerly present on the southwest corner of this intersection, locally referred to as "the Y". Former Y Shamrock was reportedly active from the late 1950s through approximately 1981. The site is currently an optical retail center and is surrounded by a variety of other commercial land uses, such as big-box retail stores, fast food restaurants, and existing gasoline service stations. Residential neighborhoods are adjacent to the commercial corridor to the west and east.

The previous consultant oversaw installation the of 10 groundwater monitor wells (BW-1 through BW-10) in the vicinity of the Former Y station, including 3 groundwater monitor wells on the

Allsup's property (Figure 2). As of July 2016, the extent of groundwater contamination remained undefined to the south and east. Benzene was the constituent found at the highest concentrations and across the greatest areal extent. Concentrations of other contaminants of concern above applicable regulatory standards were typically localized near the center of the benzene plume.

On October 24, 2017, DBS&A submitted a proposal in response to the request for proposals (RFP) for State Lead remediation services for the site. DBS&A was deemed to be the most responsive bidder and entered into a contract with NMED executed on May 15, 2018. On May 30, 2019, DBS&A initiated an additional investigation program for installation of 9 new monitor and/or remediation wells at the site. One of the primary goals was to characterize soil and groundwater conditions directly under the site of the Former Y station.

Light nonaqueous-phase liquid (LNAPL) was first observed by DBS&A in monitor well BW-5 on March 6, 2019. The LNAPL thickness in BW-5 has been approximately 9 inches in subsequent groundwater monitoring events. Based on the observed groundwater flow direction to the south-southeast, it is reasonable to assume that LNAPL in BW-5 could have emanated from a source area associated with the Former Y station. Based on the location of BW-5 relative to the presumptive release point, a significant volume of LNAPL is believed to exist within the soil column and at the water table under North Prince Street and Commerce Way.

Data collected during installation of remediation wells RW-1 through RW-4 confirmed the conceptual site model detailed in DBS&A's proposal for State Lead remediation services. Significant contamination is present in the vadose zone adjacent to the release point; however, contamination in the smear zone for downgradient wells appeared to be less than previously believed.

Based on the 2019 investigation findings, DBS&A recommended that corrective action proceed as detailed in the DBS&A proposal for State Lead remediation services, with the remediation system prioritizing removal of source area mass (LNAPL and hydrocarbons in the vadose zone) using multi-zone remediation wells located near the known extent of LNAPL. DBS&A also recommended installing three new monitor wells to define the extent of contamination cross-gradient to the east. Monitor wells MW-15, MW-16, and MW-17 were installed in May and

June 2020 (DBS&A, 2020). Contaminant of concern (COC) concentrations in newly installed monitor wells MW-15 and MW-17 were below laboratory reporting limits and define the dissolved-phase plume east of monitor wells MW-12 and MW-14. The dissolved-phase plume remains undefined cross-gradient to the east of newly installed monitor well MW-16, but that will not affect the overall remediation plan for the site.

1.2 Scope of Work

The scope of work completed under the approved workplan consisted of conducting the second quarter groundwater sampling event. To ensure that project objectives were achieved, an authorized representative of DBS&A maintained direct supervisory control of all aspects of the project.

2. Groundwater Monitoring

DBS&A personnel conducted the second quarter groundwater monitoring event at the site on September 9 through 16, 2020. Activities conducted during the monitoring event included gauging fluid levels in all site wells and collecting groundwater samples from up to 18 site wells, provided they did not contain LNAPL. LNAPL was recovered from any well containing LNAPL at a thickness of greater than ⅛ inch (0.01 foot). The sampling protocol is provided in Appendix A. Field notes recorded during sampling activities are included in Appendix B.

2.1 Fluid Level Gauging

On September 9, 2020, DBS&A personnel used an electronic interface probe to gauge the depth to water (and LNAPL where present) in all existing monitor wells. Fluid level measurements from this and previous groundwater monitoring events are summarized in Table 1. Based on information determined from LNAPL sampling performed during the June 2019 groundwater monitoring event, gasoline was shown to be the predominant fuel present at the site. Therefore, the potentiometric surface elevation for any well containing LNAPL was corrected using a specific gravity of 0.75. Fluid level data were used to prepare a potentiometric surface elevation map (Figure 3).

2.2 LNAPL Recovery

LNAPL was present in monitor well BW-5 at a thickness of 0.42 foot on September 9, 2020. LNAPL was recovered by hand bailing for approximately 1 hour using a new, dedicated, disposable 3-inch polyethylene bailer. A total of 0.26 gallon of LNAPL was recovered, with a final LNAPL thickness of less than 0.01 foot (Table 2). Initial LNAPL thicknesses have decreased with each LNAPL recovery event since it was first measured in March 2019 at 1.92 feet.

2.3 Groundwater Sampling

Following gauging, a total of 17 site wells were sampled from September 9 through 16, 2020. This included BW-4, BW-7, BW-7R, BW-8 through BW-10, MW-11 through MW-17, and RW-1 through RW-4.

The 17 site wells were purged and sampled using a DBS&A-owned Bennett pump. The Bennett pump is a piston fluid pump with two motor pistons capable of lifts of up to 1,000 feet. Nitrogen gas is conveyed to the pump to operate the piston, which returns groundwater to the surface. The pump and associated tubing coils on and off a reel operated by a 50-ampacity motor. The tubing bundle, reel, and motor are all mounted on a flatbed trailer.

During Bennett pump purging, extracted groundwater water was pumped into a calibrated, 5-gallon bucket to assess the presence of LNAPL and measure purge volume. Purge water from the Bennett pump was handled in accordance with the sampling protocol (Appendix A). Groundwater field parameters, including dissolved oxygen (DO), oxygen/reduction potential (ORP), electrical conductivity (EC), pH, and temperature, were measured in the field during purging and recorded in the field notes (Appendix B).

In addition to being sampled using the Bennett pump, monitor wells BW-8, MW-11, and MW-14 were also sampled using HydraSleeve no-purge groundwater sampling systems in order to compare the data collected using the two sampling methodologies. DBS&A deployed two HydraSleeve samplers in each well, one at 5 feet below the static water surface and a second one at 5 feet above the bottom of the well screen. The HydraSleeve samplers were

deployed following the June 2020 monitoring event. HydraSleeves remain closed due to water pressure until they are retrieved. The upward motion of retrieval opens the HydraSleeve's check valve, and the bag fills from the top. When the HydraSleeve sample bag is full, the check valve closes, allowing the sample to be collected from a discrete depth, reducing turbidity of the sample, and preventing water above (or below) the desired sample zone from entering the sample bag. The sample bag is pierced with a straw to transfer the sample to laboratory provided sample bottles.

Groundwater samples collected from the wells were transferred directly from the Bennett pump tubing or HydraSleeve into laboratory-prepared sample containers containing the appropriate preservatives. The samples were labeled and preserved on ice in an insulated cooler for delivery to Hall Environmental Analysis Laboratory (HEAL) for analysis; samples were accompanied by full chain of custody documentation at all times. Groundwater samples were analyzed for volatile organic compounds (VOCs) using Environmental Protection Agency (EPA) method 8260B (full list) and for 1,2-dibromoethane (EDB) using EPA method 504.1. The complete laboratory analytical reports for collected groundwater samples are included in Appendix C.

2.4 Results

Results from September 2020 groundwater monitoring are discussed in the following sections.

2.4.1 Fluid Level Measurements

Fluid levels measured on September 9, 2020, are summarized in Table 1 and were used to construct the potentiometric surface map provided as Figure 3. Groundwater is encountered under the site at depths that range from approximately 319 to 330 feet below ground surface and generally flows to the south-southeast with an approximate gradient of 0.003 foot per foot. The overall flow direction and gradient are similar to that noted during previous monitoring events. Since 2014, groundwater elevations have decreased approximately 3.5 feet, resulting in an average annual decrease of 0.5 foot per year (Appendix D)

2.4.2 Groundwater Analysis

Groundwater samples from the 17 monitor wells that did not contain a measurable thickness of LNAPL were submitted to HEAL for analysis. The full laboratory analytical report is provided in Appendix C; results are summarized in Table 3 and on Figure 4. Benzene, 1,2-dichloroethane (EDC), and EDB isoconcentration maps were prepared to show the extent of dissolved-phase contamination associated with the site (Figures 5, 6, and 7, respectively). Graphs showing historical trends in monitor well contaminant concentrations are provided in Appendix D.

During the current monitoring event, concentrations of COCs were below laboratory reporting limits or applicable New Mexico Water Quality Control Commission (NMWQCC) standards in groundwater samples collected from monitor wells BW-4, BW-9, BW-10, MW-14, MW-15, and MW-17. The samples collected from BW-7, BW-7R, BW-8, MW-11, MW-12, MW-13, MW-16, and RW-1 through RW-4 contained multiple COCs at concentrations exceeding NMWQCC standards. BW-5 has been reported to contain LNAPL since February 2019, but DBS&A first measured LNAPL with an interface probe in the well in March 2019. Notable changes or trends include (Appendix D):

- BW-4: Concentrations of COCs have significant fluctuations in the historic record. Except for EDC in June 2020, COCs have been below applicable groundwater standards for four consecutive groundwater monitoring events. Benzene was detected at concentrations as high as 1,100 micrograms per liter (µg/L) in May 2015; however, samples collected by DBS&A have consistently shown benzene to be below the NMWQCC standard of 5 µg/L. Due to a relatively high soil vapor extraction radius of influence at the site, contamination may have been drawn to BW-4 during vapor sampling activities conducted by the previous consultant. DBS&A will monitor trends associated with this well closely, as it is upgradient from the presumed release at the Former Y Station.

- BW-7: Since September 2015, concentrations of BTEX constituents have decreased from 17,750 to 49.4 µg/L, including individual decreases in benzene (9,400 to 48 µg/L), toluene (5,000 to <1.0 µg/L), and total xylenes (2,600 to <1.5 µg/L). During the current monitoring event, benzene (48 µg/L), EDB (0.86 µg/L), and EDC (78 µg/L) were detected at concentrations exceeding the respective NMWQCC standards. Similar to

BW-4, the spike in COC concentrations in 2015 and 2016 may be related to vapor sampling activities conducted by the previous consultant.

- BW-7R: COC concentrations have not varied significantly since the well was installed in 2019. During the current monitoring event, benzene (130 µg/L), EDB (0.17 µg/L), and EDC (60 µg/L) were detected at concentrations exceeding the respective NMWQCC standards. Recent COC concentrations are similar to existing well BW-7.

- BW-8: COC concentrations have not varied significantly since the well was installed in 2016. During the current monitoring event, benzene (4,800 µg/L), toluene (7,500 µg/L), total xylenes (2,600 µg/L), EDB (0.092 µg/L), EDC (95 µg/L), and total naphthalenes (130 µg/L) were detected at concentrations exceeding the respective NMWQCC standards.

- MW-11: COC concentrations have not changed significantly since the well was installed in September 2019. During the current monitoring event, benzene (3,300 µg/L), EDB (1.2 µg/L), EDC (130 µg/L), and total naphthalenes (40 µg/L) were detected at concentrations exceeding the respective NMWQCC standards.

- MW-12: COC concentrations have not changed significantly since the well was installed in September 2019. During the current monitoring event, benzene (390 µg/L), EDB (0.38 µg/L), and EDC (68 µg/L) were detected at concentrations exceeding the respective NMWQCC standards.

- MW-13: COC concentrations indicate this well is on the western edge of the dissolved-phase plume. Benzene (94 µg/L) and EDC (11 µg/L) were detected at concentrations above the respective NMWQCC standards.

- MW-14: COCs were not detected at concentrations above the laboratory reporting limits for the second consecutive monitoring event. Detections during the September 2019 monitoring event, including an EDB concentration at the NMWQCC standard of 0.05 µg/L, may have been an artifact of well development. Trends will be monitored closely.

- MW-15: COCs were not detected at concentrations above the laboratory reporting limits.

- MW-16: Benzene (920 µg/L), EDB (0.66 µg/L), and EDC (55 µg/L) were detected at concentrations exceeding the respective NMWQCC standards. All other detected COC concentrations were below the respective NMWQCC standards.

- MW-17: COCs were not detected at concentrations above the laboratory reporting limits.

Water quality samples collected from monitor wells BW-8, MW-11, and MW-14 using HydraSleeve no-purge groundwater sampling systems were submitted to HEAL for analysis, as discussed in Section 2.3. Data for all samples are included in Table 3 and on Figure 8. Notable comparisons include:

- BW-8: Concentrations of BTEX constituents, EDB, and total naphthalenes were significantly higher in the HydraSleeve samples during the current monitoring event. On average, COC concentrations were approximately three times higher than the Bennett pump sample. This is a significant change from the first HydraSleeve sample in June 2020 and may be related to the length of time that the sampling bags were deployed in the well combined with the proximity to NAPL. EDC has also been noticeably absent from the majority of the HydraSleeve samples; EDC may be pulled into the well due to relatively high purge volumes.

- MW-11: Concentrations of COCs were similar in the three samples with the exception of total xylenes. HydraSleeve samples from both June and September 2020 contained a significantly smaller percentage of total xylenes than the Bennett pump sample. Relatively high purge volumes and the aquifer test performed in July 2019 may have artificially exaggerated total xylene concentrations.

- MW-14: COCs were not detected at concentrations above the laboratory reporting limits in all three samples.

Initial HydraSleeve samples have correlated well with corresponding Bennett pump samples, or have reasonable explanations regarding observed deviations. Trends regarding future HydraSleeve samples will be monitored closely.

3. Conclusions and Recommendations

Based on data collected during recent groundwater monitoring events, concentrations of dissolved-phase COCs in excess of NMWQCC standards extend more than 1,000 feet downgradient from the presumed release. COC concentrations in newly installed monitor wells MW-15 and MW-17 were below laboratory reporting limits, and define the dissolved-phase plume east of MW-12 and MW-14. The dissolved-phase plume remains undefined cross-gradient to the east of newly installed monitor well MW-16, but that will not affect the overall remediation plan for the site.

LNAPL has been consistently present in monitor well BW-5 since at least February 2019. Based on the location of BW-5 relative to the release point, a significant volume of LNAPL is believed to exist under North Prince Street and Commerce Way. Remediation wells RW-1 through RW-4 do not currently contain a measurable thickness of LNAPL; however, more time may be needed for LNAPL to accumulate in the wells.

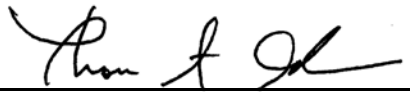
Based on these findings, DBS&A recommends that corrective action proceed as detailed in the DBS&A proposal for State Lead remediation services. The remediation system should prioritize removal of source area mass (LNAPL and hydrocarbons in the vadose zone) using multi-zone remediation wells located near the known extent of LNAPL. Single-zone wells can be used for dissolved-phase plume containment. Deep vadose zone contamination was found in the multi-zone remediation wells, but not in single-zone wells south of RW-4, so well locations appear to have been chosen appropriately for the distribution of contamination.

DBS&A recommends that quarterly groundwater monitoring continue at the site to establish trends in contaminant concentrations prior to and following implementation of a corrective action system. No additional monitor wells are needed at this time.

HydraSleeve sample results have been promising, and DBS&A recommends expanded use of this method during the next groundwater monitoring event. For the third quarter groundwater monitoring event, a single HydraSleeve sample should be collected from all 17 monitor wells sampled during this monitoring event. Two HydraSleeve samples should be submitted for laboratory analysis from wells BW-8 and MW-11, one using the bag currently deployed in the well and a second using a bag deployed the same day as sample collection. In addition, wells BW-7R, BW-8, MW-11, MW-16, RW-3, and RW-4 should be sampled using the Bennett pump to further correlate sample results from the two sampling methods.

Statement of Familiarity

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

Signature: 

Authorized Representative: Thomas Golden, P.E.

Affiliation: Daniel B. Stephens & Associates, Inc.

Title: Project Engineer

Date: November 4, 2020

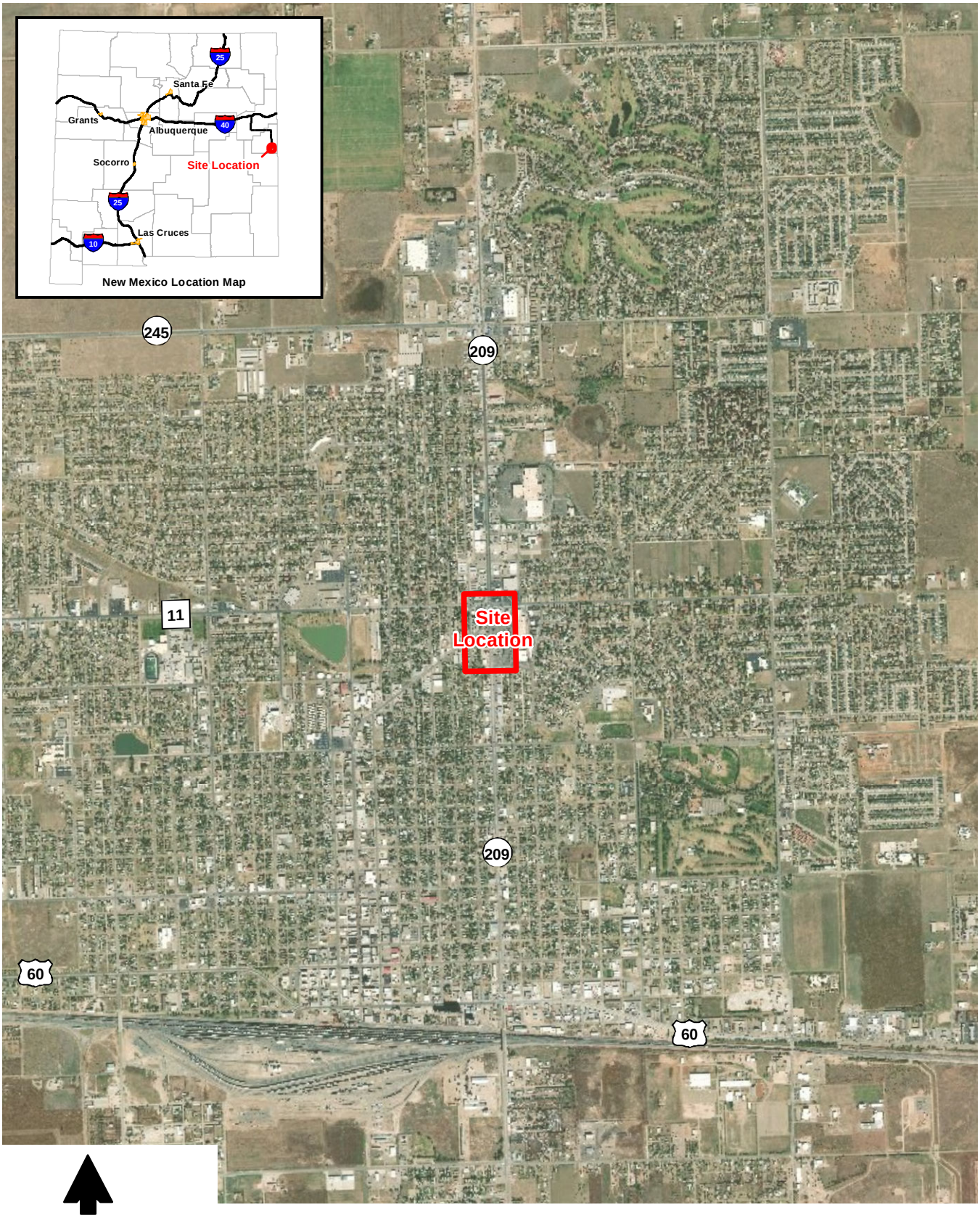
References

Daniel B. Stephens & Associates, Inc. (DBS&A). 2019. *Work plan for site investigation, groundwater monitoring, and final remediation plan development, Former Y Station State Lead Site, 721 Commerce Way, Clovis, New Mexico.* Submitted to the New Mexico Environment Department Petroleum Storage Tank Bureau. December 20, 2019.

DBS&A. 2020. *Final well installation and first quarter groundwater monitoring report, Former Y Station State Lead Site, 721 Commerce Way, Clovis, New Mexico.* Submitted to the New Mexico Environment Department Petroleum Storage Tank Bureau. July 22, 2020.

New Mexico Environment Department (NMED). 2020. Letter from Dana Bahar to Thomas Golden, Daniel B. Stephens & Associates, Inc., regarding Phase 1 fixed-price workplan approval for Former Y Station, 721 Commerce Way, Clovis, New Mexico. February 19, 2020.

Figures



S:\PROJECTS\DB18.1157_FORMER_Y_STATION\GIS\MXDS\F01_AREA_MAP.MXD

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Area Map

Daniel B. Stephens & Associates, Inc.
6/3/2019
JN DB18.1157.00

Figure 1

V:\Marketing\Proposals in Progress\DB17.1228.PR_NMED_Former_Y_Station_RA\GIS\MXD

Figure 2

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Site Map

Daniel B. Stephens & Associates, Inc.
6/16/2020
JN DB18.1157.00

V:\Marketing\Proposals in Progress\DB17.1228.PR_NMED_Former_Y_Station_RA\GIS\MXD

Figure 3

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Potentiometric Surface Elevations
September 9, 2020

Daniel B. Stephens & Associates, Inc.
11/3/2020 JN DB18.1157.00

S:\Projects\DB18.1157_Former_Y_Station\GIS\MXDs\Chemistry\DPC_2020-09.mxd

BW-4			9/11/2020
1.6	<1.0	<1.0	<1.5
1.6	<0.0094	3.3	<10
<1.0			

RW-1			9/15/2020
650	230	49	120
1,049	**1.7**	**22**	14
<2.0			

RW-2			9/15/2020
2,500	**2,600**	180	800
6,080	**2.6**	**25**	**41**
<10			

BW-8			9/15/2020
4,800	**7,500**	590	**2,600**
15,490	**0.092**	**95**	**130**
<50			

BW-9			9/11/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0094	<1.0	<10
<1.0			

BW-7			9/14/2020
48	<1.0	1.4	<1.5
49.4	**0.86**	**78**	<10
<1.0			

BW-10			9/11/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0094	<1.0	<10
<1.0			

RW-3			9/16/2020
4,000	**2,900**	280	**1,900**
9,080	**33**	**190**	**68**
<20			

RW-4			9/12/2020
1,400	600	92	300
2,392	**9.7**	**91**	<100[a]
<10			

BW-7R			9/12/2020
130	<2.0	4.3	5.6
139.9	**0.17**	**60**	<20
<2.0			

MW-13			9/12/2020
94	<1.0	7.5	23
124.5	0.039	**11**	<10
<1.0			

MW-12			9/15/2020
930	<5.0	<5.0	78
1,008	**0.38**	**68**	<50[a]
<5.0			

MW-11			9/15/2020
3,300	14	300	520
4,134	**1.2**	**130**	**40**
<20			

MW-17			9/10/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0095	<1.0	<10
<1.0			

MW-16			9/11/2020
920	11	34	300
1,265	**0.66**	**55**	7.5
<2.0			

MW-15			9/10/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0095	<1.0	<10
<1.0			

MW-14			9/9/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0096	<1.0	<10
<1.0			

N

0 75 150 Feet

Explanation

- Single completion monitor well
- Nested monitor well

Location designation			Sample Date
Benzene	Toluene	Ethylbenzene	Total Xylenes
BTEX	EDB	EDC	Total Naphthalenes
MTBE			

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
2. **RED** indicates concentration that exceeds NMWQCC standard.
3. [a] Laboratory reporting limit is equal to or greater than the applicable standard.

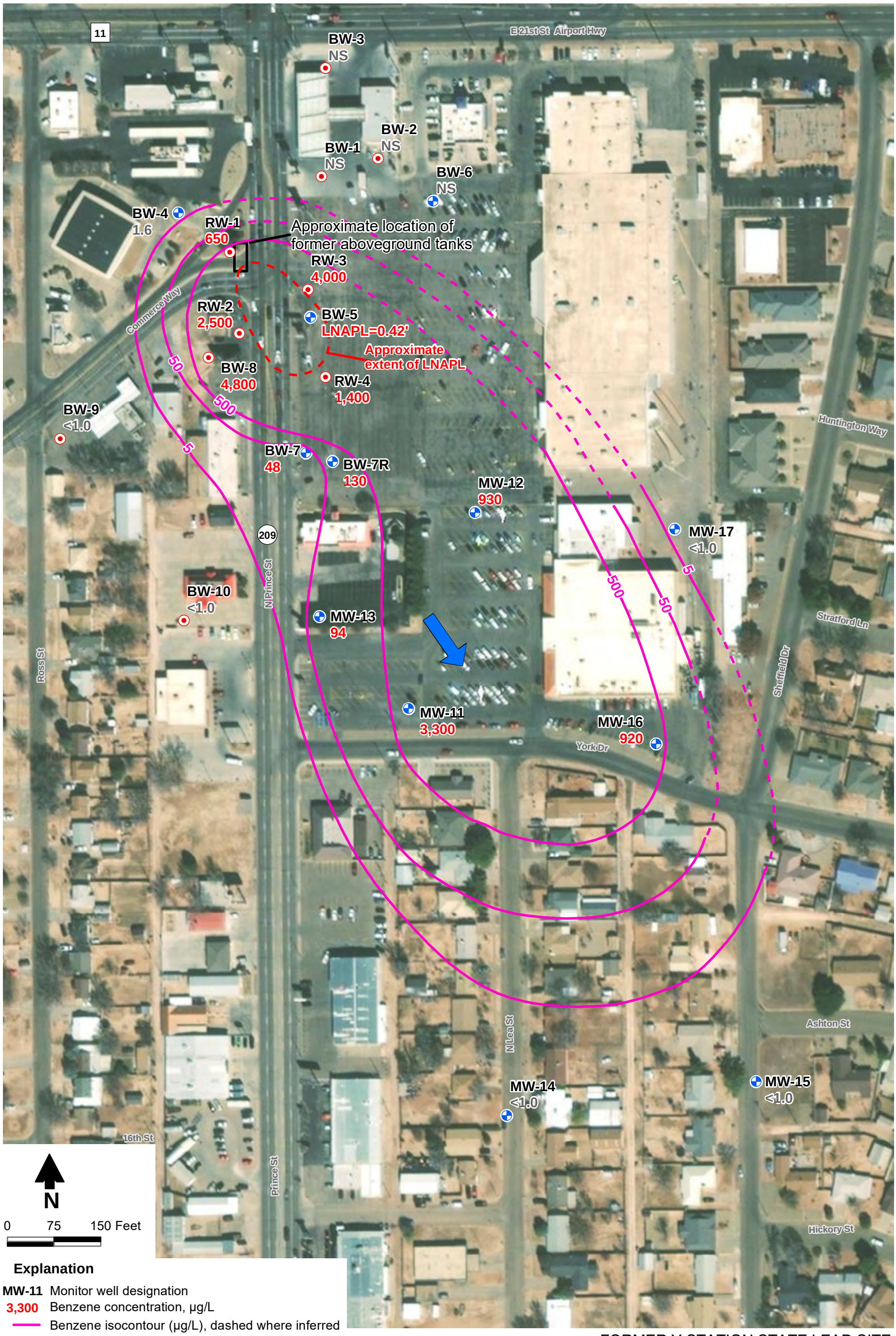
Figure 4

Daniel B. Stephens & Associates, Inc.
10/2/2020 JN DB18.1157.00

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Distribution of Dissolved-Phase Contaminants - September 2020

S:\Projects\DB18.1157_Former_Y_Station\GIS\MXDs\Chemistry\Benzene\Bz_2020-09.mxd



Explanation

MW-11 Monitor well designation

3,300 Benzene concentration, µg/L

Benzene isocontour (µg/L), dashed where inferred

Single completion monitor well

Nested monitor well

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
2. **RED** indicates concentration that exceeds NMWQCC standard.

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Benzene Isoconcentration Map
September 2020

Figure 5

Daniel B. Stephens & Associates, Inc.
10/7/2020 JN DB18.1157.00

S:\Projects\DB18.1157_Former_Y_Station\GIS\MXDs\Chemistry\EDC\EDC_2020-09.mxd

Explanation

MW-11 Monitor well designation

130 EDC concentration, µg/L

EDC isocontour (µg/L), dashed where inferred

Single completion monitor well

Nested monitor well

Notes: 1. All concentrations reported in micrograms per liter (µg/L)
2. **RED** indicates concentration that exceeds NMWQCC standard

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

EDC Isoconcentration Map
September 2020

Figure 6

Daniel B. Stephens & Associates, Inc.
11/3/2020 JN DB18.1157.00

S:\Projects\DB18.1157_Former_Y_Station\GIS\MXDs\Chemistry\EDB\EDB_2020-09.mxd

Explanation

MW-11 Monitor well designation

1.2 EDB concentration, µg/L

EDB isocontour (µg/L), dashed where inferred

Single completion monitor well

Nested monitor well

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
2. **RED** indicates concentration that exceeds NMWQCC standard.

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

EDB Isoconcentration Map
September 2020

Figure 7

Daniel B. Stephens & Associates, Inc.
11/3/2020 JN DB18.1157.00

S:\Projects\DB18.1157_Former_Y_Station\GIS\MXDs\Chemistry\HSDPC_Map_2020-09.mxd

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
2. **RED** indicates concentration that exceeds NMWQCC standard.
3. [a] Laboratory reporting limit is equal to or greater than the applicable standard.

Figure 8

Daniel B. Stephens & Associates, Inc.
11/3/2020 JN DB18.1157.00

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Water Quality Comparison
Bennett Pump versus HydraSleeve

Tables

Table 1. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation [a] (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (ft msl)
BW-1	295–345	4279.88 [c]	04/13/12	322.49	—	0.00	3957.39
			07/27/12	322.69	—	0.00	3957.19
			09/24/12	322.75	—	0.00	3957.13
		4279.55	04/29/14	325.75	—	0.00	3953.80
			05/08/15	326.60	—	0.00	3952.95
			09/10/15	326.96	—	0.00	3952.59
			03/29/16	327.12	—	0.00	3952.43
			07/26/16	327.34	—	0.00	3952.21
			07/10/18 [d]	327.93	—	0.00	3951.62
			02/14/19 [d]	328.18	—	0.00	3951.37
			03/06/19	328.11	—	0.00	3951.44
			05/02/19 [d]	328.41	—	0.00	3951.14
			05/20/19	328.20	—	0.00	3951.35
			08/13/19	328.61	—	0.00	3950.94
			09/16/19	328.85	—	0.00	3950.70
			06/08/20	328.91	—	0.00	3950.64
			09/09/20	329.24	—	0.00	3950.31
BW-2	287–347	4280.53 [c]	10/26/09	323.12	—	0.00	3957.41
			09/24/12	323.21	—	0.00	3957.32
		4280.23	04/29/14	326.14	—	0.00	3954.09
			05/08/15	327.00	—	0.00	3953.23
			09/10/15	327.33	—	0.00	3952.90
			03/29/16	327.52	—	0.00	3952.71
			07/26/16	327.78	—	0.00	3952.45
			07/10/18 [d]	328.38	—	0.00	3951.85

Table 1. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation [a] (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (ft msl)
BW-2 (cont.)	287–347	4280.23	02/14/19 [d]	328.60	—	0.00	3951.63
			03/06/19	328.53	—	0.00	3951.70
			05/02/19 [d]	328.97	—	0.00	3951.26
			05/20/19	328.61	—	0.00	3951.62
			08/13/19	329.03	—	0.00	3951.20
			09/17/19	328.98	—	0.00	3951.25
			06/08/20	329.34	—	0.00	3950.89
			09/09/20	329.62	—	0.00	3950.61
BW-3	287–347	4280.17 [c]	10/26/09	322.36	—	0.00	3957.81
			09/24/12	322.44	—	0.00	3957.73
		4279.91	04/29/14	325.38	—	0.00	3954.53
			05/08/15	326.20	—	0.00	3953.71
			09/10/15	326.56	—	0.00	3953.35
			03/29/16	326.71	—	0.00	3953.20
			07/26/16	326.94	—	0.00	3952.97
			07/10/18 [d]	327.52	—	0.00	3952.39
			02/14/19 [d]	327.76	—	0.00	3952.15
			03/06/19	327.75	—	0.00	3952.16
			05/02/19 [d]	328.00	—	0.00	3951.91
			05/20/19	327.79	—	0.00	3952.12
			08/13/19	328.19	—	0.00	3951.72
			09/16/19	328.11	—	0.00	3951.80
			06/08/20	328.49	—	0.00	3951.42
			09/09/20	328.79	—	0.00	3951.12
BW-4	275–345	4280.02	04/29/14	326.04	—	0.00	3953.98

Table 1. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation [a] (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (ft msl)
BW-4 (cont.)	275–345	4280.02	05/08/15	326.80	—	0.00	3953.22
			09/10/15	327.23	—	0.00	3952.79
			03/29/16	327.27	—	0.00	3952.75
			07/26/16	327.52	—	0.00	3952.50
			07/10/18 [d]	327.95	—	0.00	3952.07
			02/14/19 [d]	328.29	—	0.00	3951.73
			03/06/19	328.20	—	0.00	3951.82
			05/02/19 [d]	328.59	—	0.00	3951.43
			05/20/19	328.36	—	0.00	3951.66
			08/13/19	328.74	—	0.00	3951.28
			09/17/19	328.59	—	0.00	3951.43
			06/08/20	329.04	—	0.00	3950.98
			09/09/20	329.33	—	0.00	3950.69
BW-5	273.5–348.5	4278.99	04/29/14	325.53	—	0.00	3953.46
			05/08/15	326.27	—	0.00	3952.72
			09/10/15	326.73	—	0.00	3952.26
			03/29/16	326.87	—	0.00	3952.12
			07/26/16	326.98	—	0.00	3952.01
			07/10/18 [d]	327.53	—	0.00	3951.46
			02/14/19 [d]	329.46	NA	NA	NA
			03/06/19	329.28	327.36	1.92	3951.15
			05/02/19 [d]	329.70	NA	NA	NA
			05/20/19	329.35	327.58	1.77	3950.97
			08/13/19	328.89	328.20	0.69	3950.62
			09/20/19	328.94	328.18	0.76	3950.62

Table 1. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation [a] (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (ft msl)
BW-5 (cont.)	273.5–348.5	4278.99	06/08/20	329.65	329.07	0.58	3949.78
			09/09/20	329.34	328.92	0.42	3949.97
BW-6	275–345	4280.24	04/29/14	326.46	—	0.00	3953.78
			05/08/15	327.27	—	0.00	3952.97
			09/10/15	327.60	—	0.00	3952.64
			03/29/16	327.70	—	0.00	3952.54
			07/26/16	328.08	—	0.00	3952.16
			07/10/18 [d]	328.72	—	0.00	3951.52
			02/14/19 [d]	328.91	—	0.00	3951.33
			03/06/19	328.82	—	0.00	3951.42
			05/02/19 [d]	329.23	—	0.00	3951.01
			05/20/19	328.91	—	0.00	3951.33
			08/13/19	329.35	—	0.00	3950.89
			09/16/19	329.18	—	0.00	3951.06
			06/08/20	329.70	—	0.00	3950.54
			09/09/20	330.00	—	0.00	3950.24
BW-7	284–349	4277.47	04/29/14	324.63	—	0.00	3952.84
			05/08/15	325.42	—	0.00	3952.05
			09/10/15	325.84	—	0.00	3951.63
			03/29/16	326.01	—	0.00	3951.46
			07/26/16	326.14	—	0.00	3951.33
			03/06/19	326.88	—	0.00	3950.59
			05/20/19	327.11	—	0.00	3950.36
			08/13/19	327.47	—	0.00	3950.00
			09/18/19	327.39	—	0.00	3950.08

Table 1. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation [a] (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (ft msl)
BW-7 (cont.)	284–349	4277.47	06/08/20	327.83	—	0.00	3949.64
			09/09/20	328.13	—	0.00	3949.34
BW-7R	286.79-357.07	4277.44	08/13/19	327.33	—	0.00	3950.11
			09/21/19	327.80	—	0.00	3949.64
			06/08/20	327.83	—	0.00	3949.61
			09/09/20	328.08	—	0.00	3949.36
BW-8	287–347	4278.74	03/29/16	326.61	—	0.00	3952.13
			07/26/16	326.75	—	0.00	3951.99
			07/10/18 [d]	327.33	—	0.00	3951.41
			02/14/19 [d]	327.73	—	0.00	3951.01
			03/06/19	327.55	—	0.00	3951.19
			05/20/19	327.72	—	0.00	3951.02
			08/13/19	328.10	—	0.00	3950.64
			09/18/19	327.99	—	0.00	3950.75
			06/08/20	328.34	—	0.00	3950.40
			09/09/20	328.73	—	0.00	3950.01
BW-9	287–347	4278.31	03/29/16	326.30	—	0.00	3952.01
			07/26/16	326.60	—	0.00	3951.71
			03/06/19	327.33	—	0.00	3950.98
			05/02/19 [d]	327.67	—	0.00	3950.64
			05/20/19	327.44	—	0.00	3950.87
			08/13/19	327.81	—	0.00	3950.50
			09/17/19	327.74	—	0.00	3950.57
			06/08/20	328.11	—	0.00	3950.20
			09/09/20	328.45	—	0.00	3949.86

Table 1. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation [a] (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (ft msl)
BW-10	306–346	4275.11	03/29/16	323.92	—	0.00	3951.19
			07/26/16	324.21	—	0.00	3950.90
			03/06/19	324.96	—	0.00	3950.15
			05/20/19	324.99	—	0.00	3950.12
			08/13/19	325.44	—	0.00	3949.67
			09/17/19	325.30	—	0.00	3949.81
			06/08/20	325.77	—	0.00	3949.34
			09/09/20	326.15	—	0.00	3948.96
MW-11	285.5–355.5	4274.64	08/13/19	325.81	—	0.00	3948.83
			09/18/19	325.85	—	0.00	3948.79
			06/08/20	326.24	—	0.00	3948.40
			09/09/20	326.68	—	0.00	3947.96
MW-12	287–357	4277.60	08/13/19	328.16	—	0.00	3949.44
			09/20/19	328.14	—	0.00	3949.46
			06/08/20	328.60	—	0.00	3949.00
			09/09/20	328.93	—	0.00	3948.67
MW-13	287–357	4275.82	08/13/19	326.33	—	0.00	3949.49
			09/21/19	326.44	—	0.00	3949.38
			06/08/20	326.77	—	0.00	3949.05
			09/09/20	327.08	—	0.00	3948.74
MW-14	280.5–350.73	4265.25	09/19/19	318.03	—	0.00	3947.22
			06/08/20	318.52	—	0.00	3946.73
			09/09/20	319.02	—	0.00	3946.23
MW-15	282–352.3	4268.58 [e]	06/08/20	322.86	—	0.00	3945.72
			09/09/20	323.38	—	0.00	3945.20

Table 1. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation [a] (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (ft msl)
MW-16	288.61–358.88	4276.23 [e]	06/08/20	328.75	—	0.00	3947.48
			09/09/20	329.14	—	0.00	3947.09
MW-17	289–359	4277.42 [e]	06/08/20	329.19	—	0.00	3948.23
			09/09/20	329.58	—	0.00	3947.84
RW-1	265–355	4280.00	08/13/19	328.89	—	0.00	3951.11
			09/19/19	328.84	—	0.00	3951.16
			06/08/20	329.22	—	0.00	3950.78
			09/09/20	329.47	—	0.00	3950.53
RW-2	290–360	4279.70	08/13/19	329.00	—	0.00	3950.70
			09/18/19	328.97	—	0.00	3950.73
			06/08/20	329.28	—	0.00	3950.42
			09/09/20	329.58	—	0.00	3950.12
RW-3	289.27–364.52	4278.78	09/20/19	327.95	—	0.00	3950.83
			06/08/20	328.25	—	0.00	3950.53
			09/09/20	328.56	—	0.00	3950.22
RW-4	291.15–361.51	4278.84	09/19/19	328.48	—	0.00	3950.36
			06/08/20	328.85	—	0.00	3949.99
			09/09/20	329.18	—	0.00	3949.66

Note: Pre-2017 data reported by Brown Environmental, Inc. (BEI, 2016).

[a] Surveyed by Lydick Engineers & Surveyors, October 2019. For consistency, historical groundwater elevations reference current survey data.

[b] Groundwater elevation (GWE) corrected for LNAPL thickness using the following equation: GWE = TOC Elevation - (DTW - [LNAPL thickness x 0.75]).

[c] Well survey data reported by BEI following well installation.

[d] Data reported by Brown Environmental, Inc. (BEI, 2019).

[e] Surveyed by Lydick Engineers & Surveyors, June 2020.

ft bgs = Feet below ground surface
ft msl = Feet above mean sea level
ft btoc = Feet below top of casing
DTW = Depth to water
LNAPL = Light nonaqueous-phase liquid
NA = Not measured or not available

Table 2. Summary of LNAPL Recovery From Site Wells
Former Y Station State Lead Site, Clovis, New Mexico

Date Bailed	Depth to Water [a] (ft btoc)	Depth to LNAPL (ft btoc)	Initial LNAPL Thickness (feet)	Depth to Water [b] (ft btoc)	Total Volume of Fluids Removed (gallons)	Volume of LNAPL Removed (gallons)	Cumulative Volume of LNAPL Removed (gallons)	Final Thickness of LNAPL (feet)
Cumulative volume of LNAPL recovered by DBS&A is approximately 3.6 gallons, as tabulated below.								
BW-5								
5/23/2019	329.35	327.58	1.77	328.02	7.16	1.95	1.95	0.26
9/20/2019	328.94	328.18	0.76	328.37	5.35	0.95	2.90	0.01
6/8/2020	329.65	329.07	0.58	329.22	4.27	0.46	3.36	0.00
9/16/2020	329.34	328.92	0.42	329.03	4.05	0.26	3.62	0.00

[a] Depth to water (DTW) before correction for LNAPL thickness.

[b] DTW corrected for LNAPL thickness using the following equation:
DTW = DTW - (LNAPL thickness x 0.75).

LNAPL = Nonaqueous-phase liquid
ft btoc = Feet below top of casing

Table 3. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-1	04/13/12	**240**	61	4.5	20	325.5	1.6	<1.0 [b]	3.5	<10
	09/25/12	**290**	29	4.9	34	357.9	<1.0	<1.0 [b]	**5.2**	<10
	09/25/12 [c]	**200**	46	7.8	45	298.8	<1.0	<1.0 [b]	**6.2**	<10
	04/30/14	**50**	6.0	<1.0	1.6	57.6	<1.0	<1.0 [b]	1.4	<10
	05/07/15	**130**	5.5	<1.0	5.6	141.1	1.1	<1.0 [b]	2.6	<10
	09/11/15	**13**	55	<1.0	<1.5	68	<1.0	<1.0 [b]	<1.0	<10
	03/30/16	**40**	130	<1.0	<1.5	170	<1.0	<1.0 [b]	1.3	<10
	07/27/16	**18**	15	<1.0	<1.5	33	1.2	<1.0 [b]	1.9	<10
	07/10/18	<1.0	2.9	<1.0	<1.5	2.9	<1.0	<1.0 [b]	<1.0	<10
	07/10/18 [c]	<1.0	2.9	<1.0	<1.5	2.9	<1.0	<1.0 [b]	<1.0	<10
	02/15/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	02/15/19 [c]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	05/03/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 [b]	<1.0	<10
	05/03/19 [c]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 [b]	<1.0	<10
	05/22/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	09/16/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	06/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
BW-2	09/25/12	**21**	15	<1.0	6.2	42.2	<1.0	<1.0 [b]	1.0	<10
	04/29/14	<1.0	5.6	<1.0	<1.5	5.6	<1.0	<1.0 [b]	<1.0	<10
	05/07/15	<1.0	18	<1.0	<1.5	18	<1.0	<1.0 [b]	<1.0	<10
	09/10/15	**7.2**	21	<1.0	<1.5	28.2	<1.0	<1.0 [b]	<1.0	<10
	03/29/16	<1.0	97	<1.0	<1.5	97	<1.0	<1.0 [b]	<1.0	<10
	07/26/16	<1.0	2.5	<1.0	<1.5	2.5	<1.0	<1.0 [b]	<1.0	<10
	07/10/18	<1.0	1.7	<1.0	<1.5	1.7	<1.0	<1.0 [b]	<1.0	<10
	02/14/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10

Table 3. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-2 (cont.)	05/02/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 [b]	<1.0	<10
	05/21/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
	09/17/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0092 [d]	<1.0	<10
	06/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
BW-3	09/25/12	1.4	56	<1.0	6.1	63.5	<1.0	<1.0 [b]	<1.0	<10
	04/29/14	<1.0	14	<1.0	<1.5	14	<1.0	<1.0 [b]	<1.0	<10
	05/07/15	2.6	5.0	<1.0	3.5	11.1	<1.0	<1.0 [b]	<1.0	<10
	09/10/15	<1.0	46	<1.0	<1.5	46	<1.0	<1.0 [b]	<1.0	<10
	03/29/16	<1.0	180	<1.0	2.2	182.2	<1.0	<1.0 [b]	<1.0	<10
	07/26/16	<1.0	4.0	<1.0	<1.5	4.0	<1.0	<1.0 [b]	<1.0	<10
	07/10/18	<1.0	4.3	<1.0	<1.5	4.3	<1.0	<1.0 [b]	<1.0	<10
	02/15/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	05/03/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 [b]	<1.0	<10
	05/21/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	09/16/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	06/09/20	<1.0	1.2	<1.0	<1.5	1.2	<1.0	<0.0094 [d]	<1.0	<10
BW-4	04/30/14	<1.0	11	<1.0	<1.5	11	<1.0	<1.0 [b]	1.8	<10
	05/07/15	**1,100**	**1,100**	61	600	2,861	<1.0	<1.0 [b]	**32**	<10
	09/10/15	1.9	43	<1.0	<1.5	44.9	<1.0	<1.0 [b]	<1.0	<10
	03/30/16	**200**	200	5.1	33	438.1	<1.0	<1.0 [b]	**6.9**	<10
	07/27/16	**140**	85	1.2	15	241.2	<1.0	<1.0 [b]	**6.9**	<10
	05/22/19	1.8	<1.0	<1.0	<1.5	1.8	<1.0	<0.0094 [d]	2.1	<10
	09/17/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0092 [d]	<1.0	<10
	06/10/20	2.2	<1.0	<1.0	<1.5	2.2	<1.0	<0.0093 [d]	**5**	<10
	09/11/20	1.6	<1.0	<1.0	<1.5	1.6	<1.0	<0.0094 [d]	3.3	<10

Table 3. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-5	04/29/14	**2,100**	**1,800**	200	**990**	5,090	<1.0	**29**	**100**	**59.9**
	05/08/15	**3,700**	**2,800**	300	**1,700**	8,500	<5.0	**51**	**180**	**83**
	09/11/15	**2,000**	**1,400**	220	**900**	4,520	<5.0	**18**	**100**	**80**
	09/11/15 [c]	**1,900**	**1,300**	230	**960**	4,390	<5.0	**20**	**100**	**64**
	03/30/16	**5,000**	**4,200**	500	**2,000**	11,700	<5.0	**54**	**230**	<500 [b]
	07/28/16	**2,000**	**2,400**	270	**1,300**	5,970	<10	**29**	**110**	**141**
	05/20/19 through 09/11/20	Well not sampled due to presence of LNAPL								
BW-6	04/29/14	<1.0	10	<1.0	<1.5	10	<1.0	<1.0 [b]	<1.0	<10
	05/07/15	<1.0	8.4	<1.0	<1.5	8.4	<1.0	<1.0 [b]	<1.0	<10
	09/10/15	<1.0	36	<1.0	<1.5	36	<1.0	<1.0 [b]	<1.0	<10
	03/29/16	<1.0	130	<1.0	<1.5	130	<1.0	<1.0 [b]	<1.0	<10
	07/26/16	<1.0	3.8	<1.0	<1.5	3.8	<1.0	<1.0 [b]	<1.0	<10
	07/11/18	<1.0	10	<1.0	<1.5	10	<1.0	<1.0 [b]	<1.0	<10
	02/15/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
	05/02/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 [b]	<1.0	<10
	05/21/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	09/16/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	06/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
BW-7	04/30/14	**990**	3.4	67	260	1,320	<1.0	**2.6**	**75**	21.1
	04/30/14 [c]	**1,100**	4.4	74	300	1,478	<1.0	**2.9**	**75**	20.1
	05/08/15	**3,200**	**1,200**	210	**920**	5,530	<1.0	**9.6**	**230**	**45.5**
	09/11/15	**9,400**	**5,000**	**750**	**2,600**	17,750	<1.0	**36**	**590**	**204**
	03/31/16	**8,800**	**2,900**	650	**2,100**	14,450	<1.0	<50 [b]	**580**	**120**

Table 3. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-7 (cont.)	07/28/16	**8,000**	**1,100**	630	**1,200**	10,930	<50	<50 [b]	**500**	**120**
	05/22/19	**1,400**	140	100	230	1,870	<5.0	**0.24**	**180**	22
	09/18/19	**590**	5.3	56	88	739.3	<2.0	**0.31** [d]	**120**	15
	06/12/20	**240**	<2.0	<2.0	<3.0	240	<2.0	**0.86** [d]	**65**	<20
	09/14/20	**48**	<1.0	1.4	<1.5	49.4	<1.0	**0.86** [d]	**78**	<10
BW-7R	09/21/19	**51**	9.4	1.5	9.2	71.1	<1.0	**0.096** [d]	**22**	<10
	06/11/20	**160**	2.5	7.1	13	182.6	<1.0	**0.36** [d]	**50**	4.1
	09/12/20	**130**	<2.0	4.3	5.6	139.9	<2.0	**0.17** [d]	**60**	<20
BW-8	03/31/16	**3,900**	**5,400**	440	**2,400**	12,140	<1.0	**95**	**210**	<500 [b]
	03/31/16 [c]	**4,300**	**5,900**	500	**2,700**	13,400	<1.0	**110**	**230**	**100**
	07/28/16	**3,600**	**4,800**	380	**2,500**	11,280	<50	**100**	**180**	**120**
	07/28/16 [c]	**3,400**	**4,700**	380	**2,500**	10,980	<50	**100**	**180**	**120**
	05/30/19	**4,600**	**4,200**	390	**1,200**	10,390	<5.0	**9.1** [d]	**290**	**67**
	09/18/19	**5,000**	**4,300**	420	**1,400**	11,120	<10	**14** [d]	**270**	**94**
	06/13/20	**7,000**	**7,900**	**700**	**2,500**	18,100	<20	**0.72** [d]	**190**	**180**
	09/15/20	**4,800**	**7,500**	590	**2,600**	15,490	<50	**0.092** [d]	**95**	**130**
BW-8 (Deep HS)	06/13/20	**7,000**	**8,400**	570	**2,400**	18,370	<10	**0.26** [d]	<10 [b]	**120**
	09/15/20	**14,000**	**28,000**	**1,600**	**10,000**	53,600	<50	**0.70** [d]	<50 [b]	**370**
BW-8 (Shallow HS)	06/13/20	**6,300**	**8,500**	670	**2,600**	18,070	<20	**0.25** [d]	<20 [b]	**130**
	09/15/20	**12,000**	**24,000**	**1,500**	**9,600**	47,100	<50	**0.88** [d]	**63**	**370**
BW-9	03/30/16	<1.0	190	<1.0	<1.5	190	<1.0	<1.0 [b]	<1.0	<10
	07/27/16	<1.0	6.1	<1.0	<1.5	6.1	<1.0	<1.0 [b]	<1.0	<10
	05/21/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	09/17/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	06/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10

Table 3. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-9 (cont.)	09/11/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
BW-10	03/29/16	<1.0	280	<1.0	<1.5	280	<1.0	<1.0 [b]	<1.0	<10
	07/27/16	<1.0	33	<1.0	<1.5	33	<1.0	<1.0 [b]	<1.0	<10
	05/21/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	09/17/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	06/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	09/11/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
MW-11	09/18/19	**3,300**	5.0	280	**1,100**	4,685	<5.0	**5.0** [d]	**130**	**40**
	06/13/20	**3,400**	8.9	300	**620**	4,328.9	<10	**2.9** [d]	**150**	**39**
	09/15/20	**3,300**	14	300	520	4,134.0	<20	**1.2** [d]	**130**	**40**
MW-11 (Deep HS)	06/13/20	**4,200**	<10	370	150	4,720	<10	**2.1** [d]	**190**	**50**
	09/15/20	**3,100**	<20	170	83	3,353	<20	**0.71** [d]	**150**	**36**
MW-11 (Shallow HS)	06/13/20	**3,900**	<10	250	86	4,236	<10	**1.4** [d]	**190**	28
	09/15/20	**3,300**	<20	230	100	3,630	<20	**0.74** [d]	**140**	**34**
MW-12	09/20/19	**1,400**	27	9.4	200	1,636.4	<1.0	**0.78** [d]	**72**	6.0
	06/12/20	**1,400**	<10	10	130	1,540	<10	**0.50** [d]	**85**	<100 [b]
	09/15/20	**930**	<5.0	<5.0	78	1,008	<5.0	**0.38** [d]	**68**	<50 [b]
MW-13	09/21/19	**97**	6.4	9.2	29	141.6	<1.0	0.037 [d]	**5.1**	<10
	06/12/20	**79**	<2.0	4.4	13	96.4	<2.0	0.035 [d]	**6.6**	<20
	09/12/20	**94**	<1.0	7.5	23	124.5	<1.0	0.039 [d]	**11**	<10
MW-14	09/19/19	4.0	15	2.8	15	36.8	<1.0	**0.050** [d]	<1.0	<10
	06/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	09/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0096 [d]	<1.0	<10
MW-14 (Deep HS)	06/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	09/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10

Table 3. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
MW-14 (Shallow HS)	06/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	09/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
MW-15	06/11/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	09/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
MW-16	06/11/20	**520**	8.7	42	140	710.7	<1.0	**0.82** [d]	**35**	3.2
	09/11/20	**920**	11	34	300	1,265	<2.0	**0.66** [d]	**55**	7.5
MW-17	06/11/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	09/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
RW-1	09/19/19	**720**	800	47	430	1,997	<1.0	**6.4** [d]	**36**	10
	06/13/20	**340**	39	18	51	448	<5.0	**0.22** [d]	<5.0 [b]	10
	09/15/20	**650**	230	49	120	1,049	<2.0	**1.7** [d]	**22**	14
RW-2	09/18/19	**3,500**	**3,300**	210	**1,600**	8,610	<10	**74** [d]	**220**	**58**
	06/14/20	**1,800**	**1,100**	130	470	3,500	<20	**4.8** [d]	<20 [b]	<200 [b]
	09/15/20	**2,500**	**2,600**	180	**800**	6,080	<10	**2.6** [d]	**25**	**41**
RW-3	09/20/19	**4,100**	**5,100**	310	**2,300**	11,810	<10	**25** [d]	**130**	**58**
	06/13/20	**3,800**	**2,300**	290	**2,100**	8,490	<20	**49** [d]	**180**	**76**
	09/16/20	**4,000**	**2,900**	280	**1,900**	9,080	<20	**33** [d]	**190**	**68**
RW-4	09/19/19	**690**	730	47	340	1,807	<1.0	**5.2** [d]	**28**	5.4
	06/12/20	**1,500**	410	110	360	2,380	<5.0	**13** [d]	**100**	20
	09/12/20	**1,400**	600	92	300	2,392	<10	**9.7** [d]	**91**	<100 [b]

Footnotes and acronym definitions are provided on the next page.

Table 3. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico

Bold indicates values that are equal to or exceed applicable standards.

Pre-May 2, 2019 data reported by Brown Environmental, Inc. (BEI, 2016).

[a] Samples analyzed in accordance with EPA method 8260B, unless otherwise noted.

[b] Laboratory reporting limit is equal or greater than the NMWQCC standard.

[c] Duplicate sample

[d] Samples analyzed in accordance with EPA method 504.1.

µg/L = Micrograms per liter
BTEX = Benzene, toluene, ethylbenzene, and total xylenes
MTBE = Methyl tertiary-butyl ether
EDB = 1,2-Dibromoethane
EDC = 1,2-Dichloroethane
NMWQCC = New Mexico Water Quality Control Commission
LNAPL = Light nonaqueous-phase liquid
HS = HydraSleeve sampling device

Appendix A

Sampling Protocol

Appendix A. Sampling Protocol

A.1. Fluid Level and Parameter Measurements

Prior to collection of groundwater samples, a Solinst interface probe or equivalent device will be used to determine depths to water and nonaqueous-phase liquid (NAPL), if present. Water level data will be used to construct a site potentiometric surface map. A YSI 556 Multi-Probe System (MPS) water quality meter or equivalent device will be used to measure specific conductivity, pH, temperature, dissolved oxygen (DO), and oxidation/reduction potential (ORP). Field parameters will be measured at intervals of no less than once per casing volume during purging of a well for sampling. The interface probe will be decontaminated before each measurement using a solution of deionized water and Liquinox (or equivalent) soap.

A.2. Groundwater Monitor Well Sampling

DBS&A will attempt to sample wells from the least contaminated to the most contaminated well using data from the previous sampling event. After collecting fluid levels and prior to sampling, each well will be purged. To ensure a fresh flow of groundwater into the well bore, a minimum of three casing volumes will be removed from each well. If a well is purged dry, it will be sampled when the well has recharged. Wells will be purged and sampled using a trailer-mounted Bennett pump in accordance with DBS&A standard operating procedures (SOPs). Water will be disposed on the ground within the site boundaries, preferably on an impervious surface and near the well of origin. Purge water must not contain NAPL, must not endanger public health or safety, and must not enter a surface water body or tributary, including an arroyo. Any purged fluids containing NAPL will be containerized for future disposal at a licensed facility.

Samples analyzed for volatile organic analytes (VOAs) will be collected in 40-milliliter (mL) glass bottles containing the appropriate preservative and capped with Teflon septa caps. VOA containers will be filled in a manner that prevents headspace in the vials. Samples analyzed for dissolved iron, lead, and manganese will be field-filtered with 0.45-micron disposable filters, collected in 250-mL plastic containers, and preserved with nitric acid to a pH of less than 2. Samples analyzed for nitrate and sulfate will be collected in 500-mL plastic containers containing no preservative.

Immediately after collection, the sample containers will be labeled and placed on ice in an insulated cooler for delivery to the laboratory for analyses. Groundwater samples will be accompanied by full chain of custody documentation at all times.

Appendix B

Field Notes

6-14-20 (cont)

- 1230 - Collect Rinsate Blank (3 vials) after Decon of pump = >2hrs
  Pump: Decon procedures - thorough
  Decon'd pump holder - Israel
  New tail light "
  New Lock (7414)

1405 - Finish NAPL Baildown & Calculations / Cleanup @ BW-5
- Fuel for generator, Ice - Samples

1440 - Finish unloading 4 empty cylinders @ OTEC to at agreed upon spot
- to lab (DBS+A) in ABQ. - unload trailer, ANAPL, gear

9-8-20

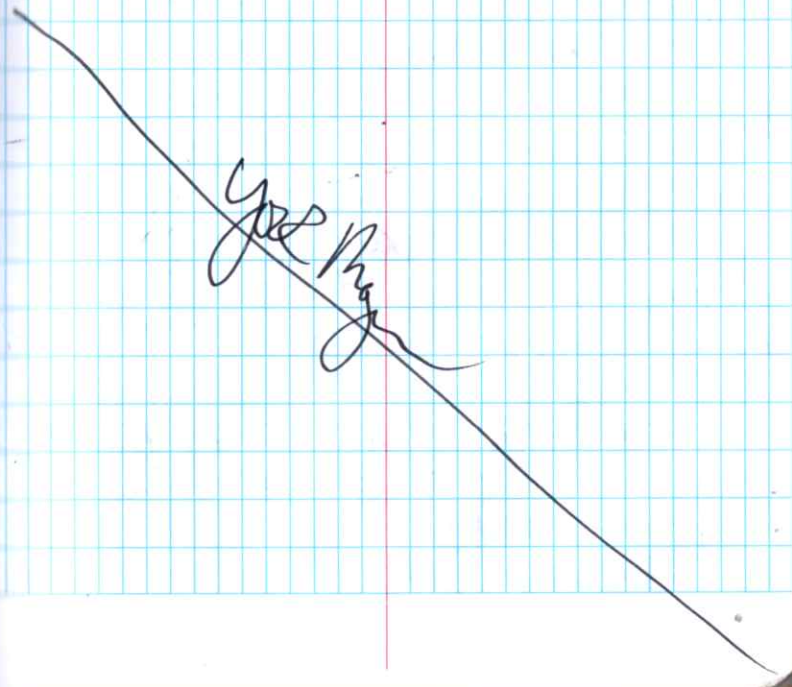
- Make Silver City to ABQ lab
- meet Jeremy Fisher to review new features on Bennett Pump trailer - new tank for potable water
- Load up
- Make to Clovis - severe weather w/ heavy rain & wind - slow drive w/ trailer
- 2115 - Arrive @ hotel

Low 37°, High 41°, very windy
Light rain

9-9-20

-0700 met Israel - Review HASP, WP, Maps, Project Planning
- Fill water tank @ hotel
- to CESCO for 4 tanks of N
- ice
- calibrate YSI
- MW-14 sample both Hydrosleeves. set up Bennett pump - air leak - troubleshoot. Find cracked housing @ tubing inlet. Israel to Autozone. use silicone to fill crack - wait 30 mins to dry.
- BSPinc @ Carn. net
- Silicone did not work. Try JB Weld for plastic - wait 30 minutes - did not work entirely. Regulator also leaking.
- Call Evan Bennett - he will machine a part for us & he ordered another regulator - For pkup tomorrow at his business in Amarillo TX
- Sampled MW-14 w/ Bennett pump - using double the N as normal - 4 cylinders
- W/ Israel gauged all 22 wells on site
- To CESCO for 4 more cylinders
- 1915 leave site to hotel

	Pkup Today	Pkup Total
N cyl.	8	8
wells	1	1
Hydrosleeves	2	2
samples	3	3



High 53°, Low 39° 9-10-20

overcast 100%, Lt rain, 10 mph winds.

- 0700 met Israel - drive to Amarillo, Tx w/ pump to Bennett Pumps. Evan installed new Parts/ tube/ hose
- New air compressor w/ filters & drier?
- 1300 To MW-15
- Calibrate meter
- Collect MW-15
- Collect MW-17
- Israel to Harbor Freight for drill bit & PVC glue/cleaner. Improve pump-securing PVC on trailer. Grease gun w/ 1 tube to lubricate reel on trailer.

	Today	Total
N. Cylinders Plu	0	8
Wells	2	3
Hydrasleeves	~~0~~	2
Samples	2	5
N. cylinders used	3.5	7.5

- Decon w/ 2.5 gal soapy ~~AZ~~ Potable water
  2.5 gal ~~DI~~ Potable between wells
- 1830 Leave site

High 76, Low 48 9-11-20

Mostly Sunny 5-10 mph Wind

- 0700 met Israel
- Start pumping BW-9 after calibrating meter
- To CESCO for 4 cylinders N.
- Israel to Lowes for PVC glue & tool box. Re-assemble PVC-pump holder
- Collect BW-10 ; 1130 I. Torres demobes
- Collect MW-16

Used quick-connect fitting to attach to end of pump - after removing screen w/ pipe wrench. Then, attached N inlet hose & purged line entirely - No water inside. Experiment to see if Evan Bennett's suggestion is easy - yes.

- Collect BW-4
- To CESCO For 3 cylinders
- 1700 To hotel to fill water tank

	Today	Total
N cylinders Plu	7	15
N Cylinders used	3.5	~~11~~
Hydrasleeves	0	2
Wells	4	7
Samples	4	9

Low 53, High 83 — 9-12-20

Hazy → Mostly sunny — 10 mph winds

- 0830 leave hotel
- Collect MW-13
- Decon w/ 10 gal potable water
- To CESCO for 2 cylinders before they close @ 12:00
- Collect BW-7R
- Truck parked on BW-7 move to RW-4
  Collect RW-4

	Today	Total
N cylinders Pln	2	17
N cylinders used	4.5	15.5
Hydrosleeves	0	2
Wells	3	10
Samples	3	12

- 1630 hotel

9-13-20

Sunday

- 0800 - leave hotel
- Set up @ BW-7. Troubleshoot pump problems. Silt inside pump? Dismantle pump. Clean. Rebuild. Won't work. Call / email Bennett Pump - No reply
- 1200 - hotel

	Today	Total
N cyl Pln	0	17
N cyl used	0.5	16
Sleeves	0	2
Wells	3	10
Samples	3	12

Hi 80°, Low 54° 9-14-20
Monday

Hazy, Cloudy

-0730 - Call Bennett pump
-0800 - Leave hotel to Amarillo
- Meet w/ Evan Bennett + father who invented pump.
- Dis-assemble pump - valves and seals are worn - sand.
Entire pump needs to be serviced will install new screen for ~~eff~~ inlet.
Not one now.
- ice fuel, wait in Amarillo
- 1600 - To CESCO for 3 cylinders
- Sample BW-7 w/ Bennett pump being careful to keep pump off bottom.
- Fill water tank @ hotel
- 1820 Done for day

	Today	Total
N Cyl Pln	3	20
N Cyl used	0.5	16.5
sleeves	0	2
Wells	1	11
Samples	1	13

9-15-20
Tuesday

- 0640 - Leave hotel
- 0650 - Arrive on site - car already parked on top of MW-12 ... must be Albertson's employees. Car parked on top last night + every day. Set cones around well
- Sample RW-1
- Decon'ing w/ 5 gal potable / Soap + 5 gal Potable again today between each well
- 0852 - car still parked on MW-12
- Collect 2 Hydrasleeves:
MW-11 Shallow HS 3 sleeves not full
MW-11 Deep HS 3 only 3 VOA vials
- Collect MW-11 w/ Bennett
- Re-deploy 2 more Hydrasleeves
- 1147 - Car still parked on MW-12
- Collect 2 Hydrasleeve
BW-8 Shallow HS
BW-8 ~~Shal~~ Deep HS
- Collect BW-8 w/ Bennett Pump
- To CESCO For 3 N Cylinders
- Finally get access to MW-12.
- Collect MW-12

9.15.20
(Cont.)

- Note: RW-2 & BW-8 have "sweet" odor almost like perc when lid is opened
- Meet w/ owner of Optical Source - very nice - hefty w/ our work & Communication
- Collect RW-2

	Today	Total
N cyl pkg	3	23
N cyl used	~~6~~ 5	~~20.5~~ 21.5
sleeves	4	6
wells	5	16
Samples	9	22

- Ice / water
- 21:00 hotel

Yes Boy

9.16.20

High 80° Low 55°
Mostly sunny, 10-15 mph winds
- 0830 refill water tank @ hotel
- decon pump from last night
- set up @ RW-3, collect sample

Decon Procedure:
- use ~~Alcon~~ Liquinox / Potable & brush on exposed tubing on reel.
- At last well, reel in 5-10' at a time & brush w/ Soap / Potable
- Replace zip ties as needed
- increase effort on lower 100' - especially lower 10'
- scrub / Pump
- remove screen on end w/ 1/8" hex in dedicated tool box.
- brush / Soap / Soak / Spray / agitate Soak some more, screen holds contaminants - very thorough
- Pump 10 gal Soap / Potable - use brush on outside during pump
- Pump 10 gal Potable, " "
- Pump 10 gal DI / Soap - let solution soak inside pump / tubing 30 mins

9-16-20 (cont.)

- pump 15 gals DI
- replace screen
- collect Blank (@ 1305)
- use quick-connect to attach hose to end of pump + run N through to purge water. Bennett recommended. Especially for winterization.

Notes:
- Reel does not always turn when red lever engages. Seemed to get worse. Can hear drain on generator but no movement until I push/pull on reel.
- Why carry gas can in trailer? Generator not used except raising + lowering. used 3/4 tank on 18 wells + lots of decon unnecessary safety & Contaminant concern.
- Find 5' of tubing aren't Teflon. Some way to bypass?
- Maybe push all fluid out w/ N + collect blank later after volatilization

9-16-20 (cont.)

- where is lock I bought?
- must have screen on end - only $45 for new
- Toolbox travels w/ trailer
- compressor vs. N cylinders

- Return 4 cylinders to CESCO used 23 out of 24 ordered.
- MAR Buildown @ BW-5
- 1625 Leave site - gas for generator
- to car wash to rinse reel + trailer w/ water only.
- 1710 - Hotel
- Draft Chains of custody

	Today	Total
N cyl P/U	0	23
N cyl used	1.5	23
Sleeves	0	6
Wells	1	17
Samples	2	24
Blank	1	1

Daniel B. Stephens & Associates, Inc.

GROUNDWATER ELEVATION DATA SHEET

Project Name: Former Y Station Sampler: Y. Morgan

Project #: DB18.1157.00 Sample Date: 9-5-20

Project Manager: T. Golden Sheet # 2 of 2

Time	Well ID	Depth to NAPL	Depth to Water	Total Depth	Comments: (well dia., sampled, condition)
1715	MW-13		327.08		
1720	MW-11		~~327~~ 326.68		326.68'
1738	MW-12		328.93		
1744	BW-7R		328.08		328.08' BW-7R
1751	BW-7		328.13		BW-7
1758	RW-4		329.18		
1803	RW-3		328.56		
1810	BW-5	329.34	328.92		0.42' NAPL
1825	BW-8		329.73		
1840	RW-1		329.47		
1850	RW-2		329.58		
1020	MW-14		319.02		w/ Heron Diver WL meter

Comments: 500' Solinst interface probe

Daniel B. Stephens & Associates, Inc.

GROUNDWATER ELEVATION DATA SHEET

Project Name: FORMER Y
Project #: DB18.1157.00
Project Manager: T. GOLDEN

Sampler: J Torres
Sample Date: 09-09-2020
Sheet # 1 of 2

	Well ID	Depth to NAPL	Depth to Water	Total Depth	Comments: (well dia., sampled, condition)
16:25	MW-15	—	323.38		
16:48	MW-16	—	329.14		
17:01	MW-17	—	329.58		
17:25	BW-6	—	330.00		
17:40	BW-2	—	329.62		
17:55	BW-1	—	329.24		
18:04	BW-3	—	328.79		
18:16	BW-4	—	329.33		
18:30	BW-10	—	326.15		
18:43	BW-9	—	328.45		

Comments: Heron Dipper-T water level meter

BW-4 Groundwater Sampling Data Sheet

Well identification **BW-4**	Date: 9.11.20
Sample identification **BW-4**	Sample time: 1446
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Morgan	Field book #:
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 329.33 TD: 349.40
Water Level Indicator: Heron Dipper-T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 20.07 x 1.02 gallons/foot = 20.47 gal x 3 CV = 61.41 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335'	
Pump Start time: 1347	Pump Stop time: 1449

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1349	2	1.1	20.4	7.41	831	7.43	83.0
1357	12	1.1	20.2	7.20	968	6.09	78.7
1406	22	1.1	20.2	7.19	672	6.55	73.9
1415	32	1.1	20.2	7.22	1005	7.53	73.5
1424	42	1.1	20.1	7.24	1000	8.20	70.5
1433	52	1.1	20.1	7.23	997	7.24	62.5
1444	62	1.1	20.4	~~7.37~~ 7.25	999	7.36	58.5

Sheet ___of___

BW-7 Groundwater Sampling Data Sheet

Well identification BW-7	Date: ~~9/13/20~~ 9/14/20
Sample identification BW-7	Sample time: 1720
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: V. Morgan	Field book #:
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 328.13 TD: 332.7

Water Level Indicator: Solinst Interface Probe

Water quality meter: YSI Pro Plus

Purge Volume (3CV) : Water Column = 4.57 x 1.02 gallons/foot = 4.66 gal x 3 CV = 13.98 gallons

Equip Type : Bennett Pump

Pump placement (feet bgs): 330'

Pump Start time: 1705

Pump Stop time: 1723

Note: Bennett Pump failed on first attempt: 9-13-20 due to pump being set too near bottom & filling w/ sediment. Repairs 9-14-20.

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L) Broken Sensor	ORP (mV)
1707	2	1.1	25.6	7.56	874	—	-96.4
1710	5	1.1	22.6	7.27	874	—	-107.1
1715	10	1.1	21.3	7.28	720	—	-112.0
1719	14	1.1	21.0	7.28	966	—	-113.1
			[illegible].				

BW-7R Groundwater Sampling Data Sheet

Well identification **BW-7R**	Date: 9-12-20
Sample identification **BW-7R**	Sample time: 1401
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Morgan	Field book #:
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 328.08 TD: 360.95
Water Level Indicator: Solinst 500 interface probe	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 32.87 x 1.02 gallons/foot = 33.53 gal x 3 CV = 100.58 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 334	
Pump Start time: 1227	Pump Stop time: 1402

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1229	2	1.1	22.3	7.50	841	8.07	-73.8
1237	11	1.1	20.9	7.27	1016	3.76	-103.3
1255	31	1.1	20.5	7.26	1035	4.15	-105.5
1315	53	1.1	20.5	7.31	1036	4.93	-96.8
1335	75	1.1	20.9	7.34	1037	4.85	-95.9
1348	90	1.1	20.6	7.36	1040	4.70	-93.0
1400	101	1.1	20.6	7.32	1032	4.60	-93.2

BW-8 Groundwater Sampling Data Sheet

6 VOA

Well identification **BW-8**	Date: 9-15-20
Sample identification **BW-8**, BW-8 Shallow HS, BW-8 Deep HS	Sample time: ~~BW-8~~ BW-8 - 1344, Shallow HS - 1218, Deep HS - ~~1225~~ 1225
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Morgan	Field book #:
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 308.73, TD: 351.80
Water Level Indicator:	Water quality meter:
Purge Volume (3CV) : Water Column = 23.07 x 0.653 gallons/foot = 15.06 gal, x 3 CV = 45.19 gallons	
Equip Type :	
Pump placement (feet bgs): 334'	
Pump Start time: 1259	Pump Stop time:

Pump sample purge - dark gray w/ petroleum odor - 6 VOA - lab QA Sample
HS Samples - gray w/ floaty black particles - emulsified product.

DO sensor broken

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1301	0	1.1	24.6	7.17	1629	—	-199.8
1309	11	1.2	22.6	7.13	1513	—	-204.7
1319	22	1.1	21.0	7.18	1377	—	-184.4
1329	33	1.1	21.2	7.19	1235	—	-173.8
~~1339~~	~~44~~					—	
1341	46	1.1	21.1	7.18	1218	—	-144.5
Shallow HS 1218	Hydrasleeve		22.9	7.18	1693	—	-182.7
Deep HS 1225	"		22.0	7.24	1713	—	-195.9

BW-9 Groundwater Sampling Data Sheet

Well identification **BW-9**	Date: 9-11-20
Sample identification **BW-9**	Sample time: 0826
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: V. Morgan I. Torres	Field book #:
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 328.45 TD: 347.6
Water Level Indicator: Heron Dipper-T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 19.15 x 0.653 gallons/foot = 12.51 gal x 3 CV = 37.51 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 333	
Pump Start time: 0750	Pump Stop time: 0828

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
0750	1	1.1	12.7	6.68	837	9.30	129.8
0802	12	1.1	15.5	7.21	929	7.25	107.1
0812	24	1.1	17.5	7.42	934	6.84	110.5
0820	33	1.1	17.7	7.46	929	6.55	114.6
0825	38	1.1	17.8	7.51	923	6.98	149.6

BW-10 Groundwater Sampling Data Sheet

Well identification **BW-10**	Date: 9-11-20
Sample identification **BW-10**	Sample time: 1033
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: V. Morgan	Field book #:
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 336.15 TD 351.2
Water Level Indicator: Heron Dipper-T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 25.05 x 0.653 gallons/foot = 16.36 gal x 3 CV = 49.07 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 332	
Pump Start time: 0948	Pump Stop time: 1032

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
0950	2	1.1	14.5	7.64	972	7.05	140.4
0958	12	1.1	17.6	7.50	884	6.31	130.7
1008	24	1.2	18.3	7.46	989	6.39	123.3
1018	36	1.2	18.6	7.43	987	6.30	111.2
1029	48	1.1	18.8	7.41	1024	6.12	105.1
1031	50	1.1	18.8	7.44	998	5.95	100.0

MW-11 Groundwater Sampling Data Sheet

Well identification **MW-11**	Date: 9-15-20
Sample identification **MW-11**, MW-11 Shallow HS, MW-11 Deep HS	Sample time: MW-11-1125 Shallow-0920 Deep-0925 (only 3 VOA vials)
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: J. Moya	Field book #:
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 326.68 TD: 360.5
Water Level Indicator: Solinst 500' interface probe	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 33.82 x 1.02 gallons/foot = 34.50 gal x 3 CV = 103.49 gallons	
Equip Type : Hydrasleeves (2) Bennett Pump	
Pump placement (feet bgs): 332	
Pump Start time: 0949	Pump Stop time: 1127

Slight odor

DO sensor broken

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	~~DO (mg/L)~~	ORP (mV)
0952	3.0	1.1	20.8	7.62	825	—	-123.9
1006	18.0	1.1	19.9	7.59	816	—	-137.9
1025	39.0	1.1	19.9	7.57	816	—	-133.2
1043	59.0	1.1	20.0	7.57	804	—	-136.1
1107	80.0	1.1	19.7	7.58	802	—	-132.0
1115	94.0	1.1	20.1	7.56	798	—	-127.2
1124	104.0	1.1	20.2	7.57	797	—	-133.0

only enough sample in each Hydrasleeve for 3 VOA vials - No WQ meter readings

MW-12 Groundwater Sampling Data Sheet

Well identification **MW-12**	Date: 9-15-20
Sample identification **MW-12**	Sample time: 1827
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: V. Raya	Field book #:
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 328.93 TD: 362
Water Level Indicator: Heron Dipper T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 33.07 x 1.02 gallons/foot = 33.73 gal x 3 CV = 101.19 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 334	
Pump Start time: 1653	Pump Stop time: 1830

No color, V. sl. petr. odor?

DO sensor broken

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1655	2.0	1.1	23.8	7.55	856	—	23.1
1703	11.0	1.1	21.3	7.42	821	—	-53.4
1715	24.0	1.1	20.3	7.41	811	—	-78.4
1735	46.0	1.1	20.0	7.43	829	—	-86.4
1752	65.0	1.1	19.9	7.43	766	—	-91.2
1809	84.0	1.1	19.8	7.44	804	—	-92.4
1817	92.0	1.1	19.7	7.45	780	—	-86.7
1826	102.0	1.1	19.5	7.46	674	—	-88.5

Sampled out of sequence due to cars parked on top of well

MW-13 Groundwater Sampling Data Sheet

Well identification **MW-13**	Date: 9-12-20
Sample identification **MW-13**	Sample time: 1053
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Morgan	Field book #:
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 327.08 TD: 362.0
Water Level Indicator: Solinst 500' interface probe	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 34.98 x 1.02 gallons/foot = 35.68 gal x 3 CV = 106.86 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs):	
Pump Start time: 0915	Pump Stop time: 1055

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
0917	2	1.1	15.9	7.72	787	5.70	152.4
0934	22	1.1	18.5	7.55	816	5.43	222
0953	43	1.1	18.8	7.54	807	6.15	-32.3
1018	70	1.1	19.0	7.50	791	7.01	-40.7
1040	94	1.1	19.2	7.57	786	6.68	-52.7
1052	107	1.1	19.4	7.60	782	5.83	-49.4

MW-14 Groundwater Sampling Data Sheet

Well identification: ~~MW-14~~ MW-14 Shallow HS / MW-14 Deep HS	Date: 9-9-20
Sample identification: ~~MW-14~~	Sample time: MW-14 - 1615 Shallow - 1100 Deep - 1110
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: J. Morgan I Torres	Field book #:
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 319.02 TD=360
Water Level Indicator: Heron Dipper T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 40.98 x 1.02 gallons/foot = 41.62 gal x 3 CV = 124.85 gallons	
Equip Type: Bennett pump - MW-14 / Hydrolabs Shallow & Deep - 5' above bottom of screen, 5' below DTW	
Pump placement (feet bgs): 325	
Pump Start time: 1438	Pump Stop time: 1616

Shallow HS only 8" water sample - barely enough to fill 5 VOA vials

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1441	3	1.2	8.4	8.05	284.1	13.08	199.4
1501	23	1.2	14.7	7.90	554.7	6.59	141.6
1512	41	1.2	16.1	7.98	545.7	8.36	139.0
1521	53	1.2	16.4	7.97	549.3	6.33	138.8
1541	77	1.2	16.4	7.99	550.6	6.52	123.3
16:00	101	1.2	16.1	7.99	547.6	6.53	129.3
16:15	119	1.7	16.1	8.02	548.0	6.05	131.9
1110 Deep HS	0.3	—	8.6	7.57	554.0	7.14	190.0

RW-4 Groundwater Sampling Data Sheet

Well identification ~~RW-4~~ MW-15	Date: 9.10.20
Sample identification ~~RW-4~~ MW-15	Sample time: 1553
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Morgan I. Torres	Field book #: 323.38
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: ~~319.02~~ TD= 360'
Water Level Indicator: Heron Dipper T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 36.60 x ~~0.163~~ 1.02 gallons/foot = ~~37.34~~ gal 37.35	
x 3 CV = ~~111.74~~ 112.06 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 328	
Pump Start time: 1410	Pump Stop time: 1554

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1411	1.0	1.0	16.3	6.24	721	6.46	128.2
1430	1.1	22.0	17.7	7.34	728	6.28	84.0
1445	1.1	44.0	18.0	7.56	728	6.07	89.1
15:10	1.1	66.0	18.0	7.61	729	6.20	94.9
15:30	1.1	88.0	18.0	7.63	727	6.03	98.0
15:52	1.1	110.0	17.9	7.68	728	6.70	102.8

BW-6 Groundwater Sampling Data Sheet

Well identification: MW-16	Date: 9-11-20
Sample identification: MW-16	Sample time: 1255
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Morgan I. Torres	Field book #:
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 329.14 TD=363.20
Water Level Indicator: Heron Dipper-T	Water quality meter: YSI ProPlus
Purge Volume (3CV) : Water Column = 34.06 x 1.02 gallons/foot = 34.74 gal x 3 CV = 104.22 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335	
Pump Start time: 1116	Pump Stop time: 1256

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1118	2	1.1	17.8	7.74	440.2	6.44	155.9
1138	24	1.1	19.1	7.59	561.3	4.09	91.5
1158	46	1.1	19.0	7.58	464.5	4.69	51.4
1216	65	1.1	19.2	7.62	477.3	6.54	48.4
1234	85	1.1	19.4	7.62	581	5.85	53.3
1252	105	1.1	19.8	7.62	580	6.01	49.9

RW-3 Groundwater Sampling Data Sheet

Well identification ~~RW-3~~ MW-17	Date: 9-10-20
Sample identification ~~RW-3~~ MW-17	Sample time: 1806
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: M. Morgan I. Torres	Field book #:
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 329.58 TD-363.70
Water Level Indicator: Heron DipperT	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 34.12 x ~~0.653~~ 1.02 gallons/foot = 34.80 gal x 3 CV = 104.4 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335'	
Pump Start time: 1630	Pump Stop time: 1808

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1632	2	1.1	14.8	7.64	685	9.25	150.2
1652	24	1.1	17.6	7.55	688	7.12	112.7
1712	36	1.1	17.9	7.53	601	7.11	105.6
1732	68	1.1	18.0	7.53	581	7.04	105.3
1752	90	1.1	17.9	7.51	660	7.09	106.2
1805	105	1.1	~~17.7~~	7.54	660	7.09	104.8
			17.7				

RW-1 Groundwater Sampling Data Sheet

Well identification **RW-1**	Date: 9-15-20
Sample identification **RW-1**	Sample time: 0831
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Morgan	Field book #:
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 302.47 TD: 360'
Water Level Indicator: Solinst 500 interface probe	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 30.53 x 0.653 gallons/foot = 19.94 gal x 3 CV = 59.81 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335'	
Pump Start time: 0735	Pump Stop time: 0834

Light grayish color, slight odor becoming dark gray

DO sensor broken

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
0737	2	1.1	18.2	7.51	924	—	-179.0
0747	13	1.1	18.7	7.42	919	—	-169.9
0757	24	1.1	18.9	7.42	903	—	-157.1
0807	35	1.1	19.1	7.42	884	—	-140.4
0817	46	1.1	19.1	7.43	875	—	-128.0
0824	54	1.1	19.3	7.43	865	—	-122.5
0830	60	1.1	19.3	7.41	865	—	-118.3

RW-2 Groundwater Sampling Data Sheet

Well identification **RW-2**	Date: 9-15-20
Sample identification **RW-2**	Sample time: 2018
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel:	Field book #:
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 329.58' TD: 365'
Water Level Indicator:	Water quality meter:
Purge Volume (3CV) : Water Column = 35.42 x 0.653 gallons/foot = 23.13 gal x 3 CV = 69.39 gallons	
Equip Type :	
Pump placement (feet bgs):	
Pump Start time: 1913	Pump Stop time: 2020

Yellowish w/ strong petroleum odor
Perc-like odor when opening well

DO sensor broken

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1920	7	1.1	19.8	7.46	936	—	-202.3
1930	18	1.1	19.4	7.42	863	—	-202.3
1940	29	1.1	19.3	7.44	817	—	-180.6
1950	40	1.1	19.2	7.45	804	—	-159.3
2000	51	1.1	19.1	7.45	775	—	-146.1
2009	61	1.1	19.1	7.43	772	—	-136.8
2017	70	1.1	19.1	7.46	752	—	-132.9

RW-3 Groundwater Sampling Data Sheet

Well identification **RW-3**	Date: 9.16.20
Sample identification **RW-3**	Sample time: 1118
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Morgan	Field book #:
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 328.56 TD: 360'
Water Level Indicator: Solinst 500' interface	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 31.44 x 0.653 gallons/foot = 20.53 gal x 3 CV = 61.59 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 334'	
Pump Start time: 1020	Pump Stop time: 1121

Dark grey, Petroleum odor

DO Sensor Broken

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	~~DO (mg/L)~~	ORP (mV)
1027	8	1.1	20.9	7.19	1021	—	-192.6
1036	18	1.1	20.5	7.19	1029	—	-192.2
1047	30	1.1	20.4	7.19	1006	—	-181.0
1057	41	1.1	20.9	7.22	989	—	-174.0
1106	51	1.1	20.5	7.22	997	—	-165.9
1117	62	1.1	20.5	7.22	975	—	-161.2

Decon Pump collect Equipment Blank @ 1305

RW-4 Groundwater Sampling Data Sheet

Well identification **RW-4**	Date: 9-12-20
Sample identification **RW-4**	Sample time: 1535
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Morgan	Field book #:
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 329.18 TD: ~360
Water Level Indicator: Solinst interface probe	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 30.82 x 0.653 gallons/foot = 20.13 gal x 3 CV = 60.38 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335	
Pump Start time: 1438	Pump Stop time: 1537

Grayish color, petroleum odor

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1440	2	1.1	20.3	7.50	949	5.04	-193.7
1449	12	1.1	20.7	7.45	944	4.74	-197.1
1458	21	1.1	20.5	7.45	946	5.15	-194.4
1507	31	1.1	20.5	7.47	946	4.07	-187.3
1516	41	1.1	20.9	7.47	932	4.66	-168.4
1525	51	1.1	21.3	7.48	916	4.82	-165.6
1534	61	1.1	20.6	7.45	885	5.28	-147.0

Daniel B. Stephens & Associates, Inc.

NAPL RECOVERY DATA SHEET

Project Name: Former U Station
Project #: 018.1157.00
Project Manager: J. Golden
Well #: RW-5
Initial Depth to NAPL: 328.92 (feet btoc)
Initial Depth to Water: 329.34 (feet btoc)
Initial NAPL Thickness: 0.42 (feet)

Sampler: Y. Morgan
Date: 9-9-20 & initial 9.16.20
Time: 1810 gauge
Well Diameter: 5 (inches)
Bailer Diameter: 3 (inches)
Start Time: 1502
End Time: 1602

Note:
Bailer volume (SCH 40 PVC): 1.5" ID bailer = 0.09 gal/ft; 3.0" = 0.37 gal/ft

Bailer #	NAPL Thickness in Bailer (feet)	Water Thickness in Bailer (feet)	Remarks / Time
1	0.1 J	1.2	1503
2	0.14	0.9	1508
3	0.13	1.4	1512
4	0.10	1.4	1516
5	0.06	1.0	1520
6	0.03	0.35	1524
7	0.02	0.7	1527
8	0.04	1.0	1532
9	0.01	0.1	1536
10	0.01	0.1	1540
11	0.02	0.6	1547
12	0.01	0.3	1550
13	0.00	0.4	1554
14	0.01	0.5	1557
15	0.00	0.3	1601

Bailer #	NAPL Thickness in Bailer (feet)	Water Thickness in Bailer (feet)	Remarks / Time
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

New bailer → replace leaker

Totals:

NAPL Thickness: 0.71 (feet)
Volume of NAPL: 0.26 (gal)
Final Depth to Water: _____ (feet btoc)

Water Thickness: 10.25 (feet)
Volume of Water: 3.79 (gal)
Final Depth to NAPL: _____ (feet btoc)

Daniel B. Stephens & Associates, Inc.

GROUNDWATER METER CALIBRATION SHEET

Project Name: Former Y Sampler: J Torres, Y. Morgan

Project #: Date: 09-09-2020

Project Manager: T Golden

pH	Temp (°C)	Comments
(4) 4.00	7.9	4.98
(7) 6.97	8.8	
(10) 10.21	8.7	9.54
SpCon (µs/cm)	Temp (°C)	Comments
(1413) 1414	9.0	
ORP (mv)	Temp (°C)	Comments
254.0	8.1	
Dissolved O_2	Temp (°C)	Comments
(%) 656.1	7.4	86.3 DO%, 10.32 mg/L
(mg/L)		
Pressure	Temp (°C)	Comments
(mmHg) 1570.3	7.3	

Comments:

Daniel B. Stephens & Associates, Inc.

GROUNDWATER METER CALIBRATION SHEET

Project Name: Former V Station Sampler: Y. Nagar

Project #: DB18.1157.00 Date: 9-10-20

Project Manager: T. Golden

pH	Temp (°C)	Comments
(4) 4.20 → 4.00	7.5	
(7) 7.38 → 7.08	8.3	Redock 7.40 → Cal to 7.08
(10) ~~4.20 → 4.00~~ 9.68 → 10.22	8.2	
SpCon (µs/cm)	Temp (°C)	Comments
1284 → 1413 (1413)	8.4	
ORP (mv)	Temp (°C)	Comments
251.4 → 220	9.4	
Dissolved O_2	Temp (°C)	Comments
(%) 63.6	12.3	
(mg/L) 8.93	11.5	
Pressure	Temp (°C)	Comments
(mmHg) 659.1	7.8	

Comments: Day #2

Daniel B. Stephens & Associates, Inc.

GROUNDWATER METER CALIBRATION SHEET

Project Name: Former V Station Sampler: Y. Morgan

Project #: DB18.1157.00 Date: 9-11-20

Project Manager: T. Golden

pH	Temp (°C)	Comments
(4)		No Cal needed
(7) 7.10	10.1	No Cal needed
(10)		"
SpCon (µs/cm)	Temp (°C)	Comments
(1413) 1387 → 1413	9.2	
ORP (mv)	Temp (°C)	Comments
217.7 → 220	9.8	
Dissolved O_2	Temp (°C)	Comments
(%) 86.5	11.0	
(mg/L) 8.53	11.6	
Pressure	Temp (°C)	Comments
(mmHg) 656.9	10.6	

Comments: YSI Pro Plus

Daniel B. Stephens & Associates, Inc.

GROUNDWATER METER CALIBRATION SHEET

Project Name: Former Y Sampler: Y. Morgan

Project #: DB18.1857.00 Date: 9-12-20

Project Manager: T. Golden

pH	Temp (°C)	Comments
(4)		No cal needed
(7) 7.06	14.5	↓
(10)		
SpCon (µs/cm)	Temp (°C)	Comments
1395 → 1413 (1413)	13.3	
ORP (mv)	Temp (°C)	Comments
218.8	14.5	
Dissolved O_2	Temp (°C)	Comments
(%) 87.0	12.8	
(mg/L) 8.32	12.9	
Pressure	Temp (°C)	Comments
(mmHg) 653.5	17.4	

Comments: YSI Pro Plus

Daniel B. Stephens & Associates, Inc.

GROUNDWATER METER CALIBRATION SHEET

Project Name: Former 4 Station Sampler: York Mayer

Project #: DB18.1157.00 Date: 9.14.20

Project Manager: T. Golden

pH	Temp (°C)	Comments
(4) 4.01	20.2	No Cal needed
(7) 7.05	19.5	
(10) 10.10	19.7	
SpCon (µs/cm)	Temp (°C)	Comments
(1413) 1399 → 1413	19.4	
ORP (mv)	Temp (°C)	Comments
219.7	19.0	No Cal needed
Dissolved O_2	Temp (°C)	Comments
(%) —	—	Sensor stem snapped in half
(mg/L) —	—	during inspection
Pressure	Temp (°C)	Comments
(mmHg) 656.2	21.4	

Comments: YSI Pro Plus

Daniel B. Stephens & Associates, Inc.

GROUNDWATER METER CALIBRATION SHEET

Project Name: Former Y Station Sampler: Y. Moya

Project #: DB18.1157.00 Date: 9.15.20

Project Manager: T. Golden

pH	Temp (°C)	Comments
(4) 4.04	18.8	No cal needed
(7) 7.04	~~17.~~ 19.2	↓
(10) 10.11	17.6	↓
SpCon (µs/cm)	Temp (°C)	Comments
(1413) 1390 → 1413	17.1	
ORP (mv)	Temp (°C)	Comments
219.5	18.4	No cal needed
Dissolved O_2	Temp (°C)	Comments
(%) —	—	stem of sensor broken
(mg/L) —	—	↓
Pressure	Temp (°C)	Comments
(mmHg) 657.0	19.1	

Comments: YSI Pro Plus

Appendix C

Laboratory Reports

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

September 28, 2020

Tom Golden

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX:

RE: Former Y Station OrderNo.: 2009A54

Dear Tom Golden:

Hall Environmental Analysis Laboratory received 24 sample(s) on 9/17/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-4
Project: Former Y Station **Collection Date:** 9/11/2020 2:46:00 PM
Lab ID: 2009A54-001 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	ND	0.0094		µg/L	1	9/22/2020 6:47:49 PM	55338
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	1.6	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Toluene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Ethylbenzene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,2-Dichloroethane (EDC)	3.3	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Naphthalene	ND	2.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1-Methylnaphthalene	ND	4.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
2-Methylnaphthalene	ND	4.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Acetone	ND	10		µg/L	1	9/21/2020 6:51:17 PM	R72045
Bromobenzene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Bromodichloromethane	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Bromoform	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Bromomethane	ND	3.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
2-Butanone	ND	10		µg/L	1	9/21/2020 6:51:17 PM	R72045
Carbon disulfide	ND	10		µg/L	1	9/21/2020 6:51:17 PM	R72045
Carbon Tetrachloride	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Chlorobenzene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Chloroethane	ND	2.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Chloroform	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Chloromethane	ND	3.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
2-Chlorotoluene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
4-Chlorotoluene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
cis-1,2-DCE	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Dibromochloromethane	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Dibromomethane	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,1-Dichloroethane	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,1-Dichloroethene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,2-Dichloropropane	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-4
Project: Former Y Station **Collection Date:** 9/11/2020 2:46:00 PM
Lab ID: 2009A54-001 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
2,2-Dichloropropane	ND	2.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,1-Dichloropropene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Hexachlorobutadiene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
2-Hexanone	ND	10		µg/L	1	9/21/2020 6:51:17 PM	R72045
Isopropylbenzene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
4-Isopropyltoluene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
4-Methyl-2-pentanone	ND	10		µg/L	1	9/21/2020 6:51:17 PM	R72045
Methylene Chloride	ND	3.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
n-Butylbenzene	ND	3.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
n-Propylbenzene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
sec-Butylbenzene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Styrene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
tert-Butylbenzene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
trans-1,2-DCE	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Trichlorofluoromethane	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Vinyl chloride	ND	1.0		µg/L	1	9/21/2020 6:51:17 PM	R72045
Xylenes, Total	ND	1.5		µg/L	1	9/21/2020 6:51:17 PM	R72045
Surr: 1,2-Dichloroethane-d4	92.9	70-130		%Rec	1	9/21/2020 6:51:17 PM	R72045
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	9/21/2020 6:51:17 PM	R72045
Surr: Dibromofluoromethane	106	70-130		%Rec	1	9/21/2020 6:51:17 PM	R72045
Surr: Toluene-d8	100	70-130		%Rec	1	9/21/2020 6:51:17 PM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-7
Project: Former Y Station **Collection Date:** 9/14/2020 5:20:00 PM
Lab ID: 2009A54-002 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	0.86	0.094		µg/L	10	9/22/2020 7:03:17 PM	55338
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	48	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Toluene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Ethylbenzene	1.4	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,2,4-Trimethylbenzene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,3,5-Trimethylbenzene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,2-Dichloroethane (EDC)	78	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Naphthalene	ND	2.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1-Methylnaphthalene	ND	4.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
2-Methylnaphthalene	ND	4.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Acetone	ND	10		µg/L	2	9/21/2020 8:45:07 PM	R72045
Bromobenzene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Bromodichloromethane	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Bromoform	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Bromomethane	ND	3.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
2-Butanone	ND	10		µg/L	2	9/21/2020 8:45:07 PM	R72045
Carbon disulfide	ND	10		µg/L	2	9/21/2020 8:45:07 PM	R72045
Carbon Tetrachloride	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Chlorobenzene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Chloroethane	ND	2.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Chloroform	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Chloromethane	ND	3.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
2-Chlorotoluene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
4-Chlorotoluene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
cis-1,2-DCE	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
cis-1,3-Dichloropropene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Dibromochloromethane	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Dibromomethane	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,2-Dichlorobenzene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,3-Dichlorobenzene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,4-Dichlorobenzene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Dichlorodifluoromethane	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,1-Dichloroethane	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,1-Dichloroethene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,2-Dichloropropane	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-7
Project: Former Y Station **Collection Date:** 9/14/2020 5:20:00 PM
Lab ID: 2009A54-002 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
2,2-Dichloropropane	ND	2.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,1-Dichloropropene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Hexachlorobutadiene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
2-Hexanone	ND	10		µg/L	2	9/21/2020 8:45:07 PM	R72045
Isopropylbenzene	1.9	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
4-Isopropyltoluene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
4-Methyl-2-pentanone	ND	10		µg/L	2	9/21/2020 8:45:07 PM	R72045
Methylene Chloride	ND	3.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
n-Butylbenzene	ND	3.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
n-Propylbenzene	1.8	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
sec-Butylbenzene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Styrene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
tert-Butylbenzene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Tetrachloroethene (PCE)	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
trans-1,2-DCE	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
trans-1,3-Dichloropropene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,2,3-Trichlorobenzene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,2,4-Trichlorobenzene	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,1,1-Trichloroethane	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,1,2-Trichloroethane	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Trichloroethene (TCE)	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Trichlorofluoromethane	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
1,2,3-Trichloropropane	ND	2.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Vinyl chloride	ND	1.0		µg/L	2	9/21/2020 8:45:07 PM	R72045
Xylenes, Total	ND	1.5		µg/L	2	9/21/2020 8:45:07 PM	R72045
Surr: 1,2-Dichloroethane-d4	93.3	70-130		%Rec	2	9/21/2020 8:45:07 PM	R72045
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	2	9/21/2020 8:45:07 PM	R72045
Surr: Dibromofluoromethane	108	70-130		%Rec	2	9/21/2020 8:45:07 PM	R72045
Surr: Toluene-d8	97.1	70-130		%Rec	2	9/21/2020 8:45:07 PM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-7R
Project: Former Y Station **Collection Date:** 9/12/2020 2:01:00 PM
Lab ID: 2009A54-003 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	0.17	0.093		µg/L	10	9/22/2020 7:18:45 PM	55338
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	130	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Toluene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Ethylbenzene	4.3	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,2,4-Trimethylbenzene	3.5	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,2-Dichloroethane (EDC)	60	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Naphthalene	ND	4.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1-Methylnaphthalene	ND	8.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
2-Methylnaphthalene	ND	8.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Acetone	ND	20		µg/L	2	9/21/2020 9:13:32 PM	R72045
Bromobenzene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Bromodichloromethane	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Bromoform	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Bromomethane	ND	6.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
2-Butanone	ND	20		µg/L	2	9/21/2020 9:13:32 PM	R72045
Carbon disulfide	ND	20		µg/L	2	9/21/2020 9:13:32 PM	R72045
Carbon Tetrachloride	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Chlorobenzene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Chloroethane	ND	4.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Chloroform	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Chloromethane	ND	6.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
2-Chlorotoluene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
4-Chlorotoluene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
cis-1,2-DCE	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Dibromochloromethane	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Dibromomethane	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,2-Dichlorobenzene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,3-Dichlorobenzene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,4-Dichlorobenzene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Dichlorodifluoromethane	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,1-Dichloroethane	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,1-Dichloroethene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,2-Dichloropropane	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-7R
Project: Former Y Station **Collection Date:** 9/12/2020 2:01:00 PM
Lab ID: 2009A54-003 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
2,2-Dichloropropane	ND	4.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,1-Dichloropropene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Hexachlorobutadiene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
2-Hexanone	ND	20		µg/L	2	9/21/2020 9:13:32 PM	R72045
Isopropylbenzene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
4-Isopropyltoluene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
4-Methyl-2-pentanone	ND	20		µg/L	2	9/21/2020 9:13:32 PM	R72045
Methylene Chloride	ND	6.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
n-Butylbenzene	ND	6.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
n-Propylbenzene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
sec-Butylbenzene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Styrene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
tert-Butylbenzene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
trans-1,2-DCE	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,1,1-Trichloroethane	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,1,2-Trichloroethane	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Trichloroethene (TCE)	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Trichlorofluoromethane	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
1,2,3-Trichloropropane	ND	4.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Vinyl chloride	ND	2.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Xylenes, Total	5.6	3.0		µg/L	2	9/21/2020 9:13:32 PM	R72045
Surr: 1,2-Dichloroethane-d4	94.2	70-130		%Rec	2	9/21/2020 9:13:32 PM	R72045
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	2	9/21/2020 9:13:32 PM	R72045
Surr: Dibromofluoromethane	106	70-130		%Rec	2	9/21/2020 9:13:32 PM	R72045
Surr: Toluene-d8	95.8	70-130		%Rec	2	9/21/2020 9:13:32 PM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: BW-8
Project: Former Y Station
Collection Date: 9/15/2020 1:44:00 PM
Lab ID: 2009A54-004
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	0.092	0.0094		µg/L	1	9/23/2020 7:54:27 AM	55338
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	4800	500		µg/L	500	9/21/2020 9:42:05 PM	R72045
Toluene	7500	500		µg/L	500	9/21/2020 9:42:05 PM	R72045
Ethylbenzene	590	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,2,4-Trimethylbenzene	310	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,3,5-Trimethylbenzene	85	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,2-Dichloroethane (EDC)	95	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
Naphthalene	130	100		µg/L	50	9/21/2020 10:10:38 PM	R72045
1-Methylnaphthalene	ND	200		µg/L	50	9/21/2020 10:10:38 PM	R72045
2-Methylnaphthalene	ND	200		µg/L	50	9/21/2020 10:10:38 PM	R72045
Acetone	ND	500		µg/L	50	9/21/2020 10:10:38 PM	R72045
Bromobenzene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
Bromodichloromethane	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
Bromoform	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
Bromomethane	ND	150		µg/L	50	9/21/2020 10:10:38 PM	R72045
2-Butanone	ND	500		µg/L	50	9/21/2020 10:10:38 PM	R72045
Carbon disulfide	ND	500		µg/L	50	9/21/2020 10:10:38 PM	R72045
Carbon Tetrachloride	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
Chlorobenzene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
Chloroethane	ND	100		µg/L	50	9/21/2020 10:10:38 PM	R72045
Chloroform	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
Chloromethane	ND	150		µg/L	50	9/21/2020 10:10:38 PM	R72045
2-Chlorotoluene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
4-Chlorotoluene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
cis-1,2-DCE	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
cis-1,3-Dichloropropene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	9/21/2020 10:10:38 PM	R72045
Dibromochloromethane	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
Dibromomethane	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,2-Dichlorobenzene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,3-Dichlorobenzene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,4-Dichlorobenzene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
Dichlorodifluoromethane	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,1-Dichloroethane	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,1-Dichloroethene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,2-Dichloropropane	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: BW-8
Project: Former Y Station
Collection Date: 9/15/2020 1:44:00 PM
Lab ID: 2009A54-004
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
2,2-Dichloropropane	ND	100		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,1-Dichloropropene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
Hexachlorobutadiene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
2-Hexanone	ND	500		µg/L	50	9/21/2020 10:10:38 PM	R72045
Isopropylbenzene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
4-Isopropyltoluene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
4-Methyl-2-pentanone	ND	500		µg/L	50	9/21/2020 10:10:38 PM	R72045
Methylene Chloride	ND	150		µg/L	50	9/21/2020 10:10:38 PM	R72045
n-Butylbenzene	ND	150		µg/L	50	9/21/2020 10:10:38 PM	R72045
n-Propylbenzene	57	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
sec-Butylbenzene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
Styrene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
tert-Butylbenzene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	9/21/2020 10:10:38 PM	R72045
Tetrachloroethene (PCE)	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
trans-1,2-DCE	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
trans-1,3-Dichloropropene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,2,3-Trichlorobenzene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,2,4-Trichlorobenzene	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,1,1-Trichloroethane	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,1,2-Trichloroethane	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
Trichloroethene (TCE)	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
Trichlorofluoromethane	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
1,2,3-Trichloropropane	ND	100		µg/L	50	9/21/2020 10:10:38 PM	R72045
Vinyl chloride	ND	50		µg/L	50	9/21/2020 10:10:38 PM	R72045
Xylenes, Total	2600	75		µg/L	50	9/21/2020 10:10:38 PM	R72045
Surr: 1,2-Dichloroethane-d4	88.8	70-130		%Rec	50	9/21/2020 10:10:38 PM	R72045
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	50	9/21/2020 10:10:38 PM	R72045
Surr: Dibromofluoromethane	104	70-130		%Rec	50	9/21/2020 10:10:38 PM	R72045
Surr: Toluene-d8	97.5	70-130		%Rec	50	9/21/2020 10:10:38 PM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-8 Deep HS
Project: Former Y Station **Collection Date:** 9/15/2020 12:25:00 PM
Lab ID: 2009A54-005 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	0.70	0.094		µg/L	10	9/22/2020 7:49:47 PM	55338
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	14000	500		µg/L	500	9/22/2020 12:04:39 AM	R72045
Toluene	28000	500		µg/L	500	9/22/2020 12:04:39 AM	R72045
Ethylbenzene	1600	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,2,4-Trimethylbenzene	1100	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,3,5-Trimethylbenzene	270	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
Naphthalene	370	100		µg/L	50	9/22/2020 12:33:05 AM	R72045
1-Methylnaphthalene	ND	200		µg/L	50	9/22/2020 12:33:05 AM	R72045
2-Methylnaphthalene	ND	200		µg/L	50	9/22/2020 12:33:05 AM	R72045
Acetone	730	500		µg/L	50	9/22/2020 12:33:05 AM	R72045
Bromobenzene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
Bromodichloromethane	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
Bromoform	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
Bromomethane	ND	150		µg/L	50	9/22/2020 12:33:05 AM	R72045
2-Butanone	920	500		µg/L	50	9/22/2020 12:33:05 AM	R72045
Carbon disulfide	ND	500		µg/L	50	9/22/2020 12:33:05 AM	R72045
Carbon Tetrachloride	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
Chlorobenzene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
Chloroethane	ND	100		µg/L	50	9/22/2020 12:33:05 AM	R72045
Chloroform	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
Chloromethane	ND	150		µg/L	50	9/22/2020 12:33:05 AM	R72045
2-Chlorotoluene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
4-Chlorotoluene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
cis-1,2-DCE	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
cis-1,3-Dichloropropene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	9/22/2020 12:33:05 AM	R72045
Dibromochloromethane	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
Dibromomethane	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,2-Dichlorobenzene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,3-Dichlorobenzene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,4-Dichlorobenzene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
Dichlorodifluoromethane	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,1-Dichloroethane	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,1-Dichloroethene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,2-Dichloropropane	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: BW-8 Deep HS
Project: Former Y Station
Collection Date: 9/15/2020 12:25:00 PM
Lab ID: 2009A54-005
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
2,2-Dichloropropane	ND	100		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,1-Dichloropropene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
Hexachlorobutadiene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
2-Hexanone	790	500		µg/L	50	9/22/2020 12:33:05 AM	R72045
Isopropylbenzene	55	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
4-Isopropyltoluene	76	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
4-Methyl-2-pentanone	ND	500		µg/L	50	9/22/2020 12:33:05 AM	R72045
Methylene Chloride	ND	150		µg/L	50	9/22/2020 12:33:05 AM	R72045
n-Butylbenzene	ND	150		µg/L	50	9/22/2020 12:33:05 AM	R72045
n-Propylbenzene	160	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
sec-Butylbenzene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
Styrene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
tert-Butylbenzene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	9/22/2020 12:33:05 AM	R72045
Tetrachloroethene (PCE)	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
trans-1,2-DCE	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
trans-1,3-Dichloropropene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,2,3-Trichlorobenzene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,2,4-Trichlorobenzene	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,1,1-Trichloroethane	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,1,2-Trichloroethane	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
Trichloroethene (TCE)	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
Trichlorofluoromethane	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
1,2,3-Trichloropropane	ND	100		µg/L	50	9/22/2020 12:33:05 AM	R72045
Vinyl chloride	ND	50		µg/L	50	9/22/2020 12:33:05 AM	R72045
Xylenes, Total	10000	75		µg/L	50	9/22/2020 12:33:05 AM	R72045
Surr: 1,2-Dichloroethane-d4	92.6	70-130		%Rec	50	9/22/2020 12:33:05 AM	R72045
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	50	9/22/2020 12:33:05 AM	R72045
Surr: Dibromofluoromethane	105	70-130		%Rec	50	9/22/2020 12:33:05 AM	R72045
Surr: Toluene-d8	93.8	70-130		%Rec	50	9/22/2020 12:33:05 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: BW-8 Shallow HS
Project: Former Y Station
Collection Date: 9/15/2020 12:18:00 PM
Lab ID: 2009A54-006
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	0.88	0.094		µg/L	10	9/23/2020 8:39:52 AM	55338
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	12000	500		µg/L	500	9/22/2020 1:01:30 AM	R72045
Toluene	24000	500		µg/L	500	9/22/2020 1:01:30 AM	R72045
Ethylbenzene	1500	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,2,4-Trimethylbenzene	990	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,3,5-Trimethylbenzene	260	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,2-Dichloroethane (EDC)	63	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
Naphthalene	370	100		µg/L	50	9/22/2020 1:29:51 AM	R72045
1-Methylnaphthalene	ND	200		µg/L	50	9/22/2020 1:29:51 AM	R72045
2-Methylnaphthalene	ND	200		µg/L	50	9/22/2020 1:29:51 AM	R72045
Acetone	970	500		µg/L	50	9/22/2020 1:29:51 AM	R72045
Bromobenzene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
Bromodichloromethane	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
Bromoform	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
Bromomethane	ND	150		µg/L	50	9/22/2020 1:29:51 AM	R72045
2-Butanone	1200	500		µg/L	50	9/22/2020 1:29:51 AM	R72045
Carbon disulfide	ND	500		µg/L	50	9/22/2020 1:29:51 AM	R72045
Carbon Tetrachloride	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
Chlorobenzene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
Chloroethane	ND	100		µg/L	50	9/22/2020 1:29:51 AM	R72045
Chloroform	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
Chloromethane	ND	150		µg/L	50	9/22/2020 1:29:51 AM	R72045
2-Chlorotoluene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
4-Chlorotoluene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
cis-1,2-DCE	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
cis-1,3-Dichloropropene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	9/22/2020 1:29:51 AM	R72045
Dibromochloromethane	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
Dibromomethane	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,2-Dichlorobenzene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,3-Dichlorobenzene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,4-Dichlorobenzene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
Dichlorodifluoromethane	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,1-Dichloroethane	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,1-Dichloroethene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,2-Dichloropropane	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: BW-8 Shallow HS
Project: Former Y Station
Collection Date: 9/15/2020 12:18:00 PM
Lab ID: 2009A54-006
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
2,2-Dichloropropane	ND	100		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,1-Dichloropropene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
Hexachlorobutadiene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
2-Hexanone	830	500		µg/L	50	9/22/2020 1:29:51 AM	R72045
Isopropylbenzene	52	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
4-Isopropyltoluene	72	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
4-Methyl-2-pentanone	ND	500		µg/L	50	9/22/2020 1:29:51 AM	R72045
Methylene Chloride	ND	150		µg/L	50	9/22/2020 1:29:51 AM	R72045
n-Butylbenzene	ND	150		µg/L	50	9/22/2020 1:29:51 AM	R72045
n-Propylbenzene	130	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
sec-Butylbenzene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
Styrene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
tert-Butylbenzene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	9/22/2020 1:29:51 AM	R72045
Tetrachloroethene (PCE)	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
trans-1,2-DCE	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
trans-1,3-Dichloropropene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,2,3-Trichlorobenzene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,2,4-Trichlorobenzene	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,1,1-Trichloroethane	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,1,2-Trichloroethane	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
Trichloroethene (TCE)	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
Trichlorofluoromethane	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
1,2,3-Trichloropropane	ND	100		µg/L	50	9/22/2020 1:29:51 AM	R72045
Vinyl chloride	ND	50		µg/L	50	9/22/2020 1:29:51 AM	R72045
Xylenes, Total	9600	75		µg/L	50	9/22/2020 1:29:51 AM	R72045
Surr: 1,2-Dichloroethane-d4	89.3	70-130		%Rec	50	9/22/2020 1:29:51 AM	R72045
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	50	9/22/2020 1:29:51 AM	R72045
Surr: Dibromofluoromethane	103	70-130		%Rec	50	9/22/2020 1:29:51 AM	R72045
Surr: Toluene-d8	96.0	70-130		%Rec	50	9/22/2020 1:29:51 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-9
Project: Former Y Station **Collection Date:** 9/11/2020 8:26:00 AM
Lab ID: 2009A54-007 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	ND	0.0094		µg/L	1	9/22/2020 8:36:21 PM	55338
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Toluene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Ethylbenzene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Naphthalene	ND	2.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
2-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Acetone	ND	10		µg/L	1	9/22/2020 1:58:22 AM	R72045
Bromobenzene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Bromodichloromethane	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Bromoform	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Bromomethane	ND	3.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
2-Butanone	ND	10		µg/L	1	9/22/2020 1:58:22 AM	R72045
Carbon disulfide	ND	10		µg/L	1	9/22/2020 1:58:22 AM	R72045
Carbon Tetrachloride	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Chlorobenzene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Chloroethane	ND	2.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Chloroform	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Chloromethane	ND	3.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
2-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
4-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
cis-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Dibromochloromethane	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Dibromomethane	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,1-Dichloroethane	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,1-Dichloroethene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,2-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-9
Project: Former Y Station **Collection Date:** 9/11/2020 8:26:00 AM
Lab ID: 2009A54-007 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
2,2-Dichloropropane	ND	2.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,1-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Hexachlorobutadiene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
2-Hexanone	ND	10		µg/L	1	9/22/2020 1:58:22 AM	R72045
Isopropylbenzene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
4-Isopropyltoluene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
4-Methyl-2-pentanone	ND	10		µg/L	1	9/22/2020 1:58:22 AM	R72045
Methylene Chloride	ND	3.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
n-Butylbenzene	ND	3.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
n-Propylbenzene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
sec-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Styrene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
tert-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
trans-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Trichlorofluoromethane	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Vinyl chloride	ND	1.0		µg/L	1	9/22/2020 1:58:22 AM	R72045
Xylenes, Total	ND	1.5		µg/L	1	9/22/2020 1:58:22 AM	R72045
Surr: 1,2-Dichloroethane-d4	93.1	70-130		%Rec	1	9/22/2020 1:58:22 AM	R72045
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	9/22/2020 1:58:22 AM	R72045
Surr: Dibromofluoromethane	106	70-130		%Rec	1	9/22/2020 1:58:22 AM	R72045
Surr: Toluene-d8	98.3	70-130		%Rec	1	9/22/2020 1:58:22 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-10
Project: Former Y Station **Collection Date:** 9/11/2020 10:33:00 AM
Lab ID: 2009A54-008 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	ND	0.0094		µg/L	1	9/22/2020 8:51:50 PM	55338
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Toluene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Ethylbenzene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Naphthalene	ND	2.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
2-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Acetone	ND	10		µg/L	1	9/22/2020 2:26:54 AM	R72045
Bromobenzene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Bromodichloromethane	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Bromoform	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Bromomethane	ND	3.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
2-Butanone	ND	10		µg/L	1	9/22/2020 2:26:54 AM	R72045
Carbon disulfide	ND	10		µg/L	1	9/22/2020 2:26:54 AM	R72045
Carbon Tetrachloride	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Chlorobenzene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Chloroethane	ND	2.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Chloroform	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Chloromethane	ND	3.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
2-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
4-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
cis-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Dibromochloromethane	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Dibromomethane	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,1-Dichloroethane	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,1-Dichloroethene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,2-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-10
Project: Former Y Station **Collection Date:** 9/11/2020 10:33:00 AM
Lab ID: 2009A54-008 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
2,2-Dichloropropane	ND	2.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,1-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Hexachlorobutadiene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
2-Hexanone	ND	10		µg/L	1	9/22/2020 2:26:54 AM	R72045
Isopropylbenzene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
4-Isopropyltoluene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
4-Methyl-2-pentanone	ND	10		µg/L	1	9/22/2020 2:26:54 AM	R72045
Methylene Chloride	ND	3.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
n-Butylbenzene	ND	3.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
n-Propylbenzene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
sec-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Styrene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
tert-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
trans-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Trichlorofluoromethane	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Vinyl chloride	ND	1.0		µg/L	1	9/22/2020 2:26:54 AM	R72045
Xylenes, Total	ND	1.5		µg/L	1	9/22/2020 2:26:54 AM	R72045
Surr: 1,2-Dichloroethane-d4	87.9	70-130		%Rec	1	9/22/2020 2:26:54 AM	R72045
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/22/2020 2:26:54 AM	R72045
Surr: Dibromofluoromethane	108	70-130		%Rec	1	9/22/2020 2:26:54 AM	R72045
Surr: Toluene-d8	101	70-130		%Rec	1	9/22/2020 2:26:54 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: MW-11
Project: Former Y Station
Collection Date: 9/15/2020 11:25:00 AM
Lab ID: 2009A54-009
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	1.2	0.47		µg/L	50	9/22/2020 9:07:14 PM	55338
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	3300	200		µg/L	200	9/22/2020 2:55:28 AM	R72045
Toluene	14	10		µg/L	20	9/22/2020 3:23:52 AM	R72045
Ethylbenzene	300	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,2,4-Trimethylbenzene	210	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,3,5-Trimethylbenzene	50	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,2-Dichloroethane (EDC)	130	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
Naphthalene	40	40		µg/L	20	9/22/2020 3:23:52 AM	R72045
1-Methylnaphthalene	ND	80		µg/L	20	9/22/2020 3:23:52 AM	R72045
2-Methylnaphthalene	ND	80		µg/L	20	9/22/2020 3:23:52 AM	R72045
Acetone	ND	200		µg/L	20	9/22/2020 3:23:52 AM	R72045
Bromobenzene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
Bromodichloromethane	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
Bromoform	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
Bromomethane	ND	60		µg/L	20	9/22/2020 3:23:52 AM	R72045
2-Butanone	ND	200		µg/L	20	9/22/2020 3:23:52 AM	R72045
Carbon disulfide	ND	200		µg/L	20	9/22/2020 3:23:52 AM	R72045
Carbon Tetrachloride	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
Chlorobenzene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
Chloroethane	ND	40		µg/L	20	9/22/2020 3:23:52 AM	R72045
Chloroform	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
Chloromethane	ND	60		µg/L	20	9/22/2020 3:23:52 AM	R72045
2-Chlorotoluene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
4-Chlorotoluene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
cis-1,2-DCE	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
cis-1,3-Dichloropropene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	9/22/2020 3:23:52 AM	R72045
Dibromochloromethane	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
Dibromomethane	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,2-Dichlorobenzene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,3-Dichlorobenzene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,4-Dichlorobenzene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
Dichlorodifluoromethane	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,1-Dichloroethane	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,1-Dichloroethene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,2-Dichloropropane	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: MW-11
Project: Former Y Station
Collection Date: 9/15/2020 11:25:00 AM
Lab ID: 2009A54-009
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
2,2-Dichloropropane	ND	40		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,1-Dichloropropene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
Hexachlorobutadiene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
2-Hexanone	ND	200		µg/L	20	9/22/2020 3:23:52 AM	R72045
Isopropylbenzene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
4-Isopropyltoluene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
4-Methyl-2-pentanone	ND	200		µg/L	20	9/22/2020 3:23:52 AM	R72045
Methylene Chloride	ND	60		µg/L	20	9/22/2020 3:23:52 AM	R72045
n-Butylbenzene	ND	60		µg/L	20	9/22/2020 3:23:52 AM	R72045
n-Propylbenzene	27	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
sec-Butylbenzene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
Styrene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
tert-Butylbenzene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	9/22/2020 3:23:52 AM	R72045
Tetrachloroethene (PCE)	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
trans-1,2-DCE	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
trans-1,3-Dichloropropene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,2,3-Trichlorobenzene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,2,4-Trichlorobenzene	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,1,1-Trichloroethane	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,1,2-Trichloroethane	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
Trichloroethene (TCE)	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
Trichlorofluoromethane	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
1,2,3-Trichloropropane	ND	40		µg/L	20	9/22/2020 3:23:52 AM	R72045
Vinyl chloride	ND	20		µg/L	20	9/22/2020 3:23:52 AM	R72045
Xylenes, Total	520	30		µg/L	20	9/22/2020 3:23:52 AM	R72045
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%Rec	20	9/22/2020 3:23:52 AM	R72045
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	20	9/22/2020 3:23:52 AM	R72045
Surr: Dibromofluoromethane	108	70-130		%Rec	20	9/22/2020 3:23:52 AM	R72045
Surr: Toluene-d8	98.0	70-130		%Rec	20	9/22/2020 3:23:52 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: MW-11 Deep HS
Project: Former Y Station
Collection Date: 9/15/2020 9:25:00 AM
Lab ID: 2009A54-010
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	0.71	0.47		µg/L	50	9/22/2020 9:22:40 PM	55338
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	3100	200		µg/L	200	9/22/2020 3:52:14 AM	R72045
Toluene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Ethylbenzene	170	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,2,4-Trimethylbenzene	84	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,3,5-Trimethylbenzene	35	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,2-Dichloroethane (EDC)	150	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Naphthalene	36	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1-Methylnaphthalene	ND	80		µg/L	20	9/22/2020 4:20:39 AM	R72045
2-Methylnaphthalene	ND	80		µg/L	20	9/22/2020 4:20:39 AM	R72045
Acetone	ND	200		µg/L	20	9/22/2020 4:20:39 AM	R72045
Bromobenzene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Bromodichloromethane	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Bromoform	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Bromomethane	ND	60		µg/L	20	9/22/2020 4:20:39 AM	R72045
2-Butanone	ND	200		µg/L	20	9/22/2020 4:20:39 AM	R72045
Carbon disulfide	ND	200		µg/L	20	9/22/2020 4:20:39 AM	R72045
Carbon Tetrachloride	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Chlorobenzene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Chloroethane	ND	40		µg/L	20	9/22/2020 4:20:39 AM	R72045
Chloroform	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Chloromethane	ND	60		µg/L	20	9/22/2020 4:20:39 AM	R72045
2-Chlorotoluene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
4-Chlorotoluene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
cis-1,2-DCE	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
cis-1,3-Dichloropropene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	9/22/2020 4:20:39 AM	R72045
Dibromochloromethane	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Dibromomethane	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,2-Dichlorobenzene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,3-Dichlorobenzene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,4-Dichlorobenzene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Dichlorodifluoromethane	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,1-Dichloroethane	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,1-Dichloroethene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,2-Dichloropropane	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: MW-11 Deep HS
Project: Former Y Station
Collection Date: 9/15/2020 9:25:00 AM
Lab ID: 2009A54-010
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
2,2-Dichloropropane	ND	40		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,1-Dichloropropene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Hexachlorobutadiene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
2-Hexanone	ND	200		µg/L	20	9/22/2020 4:20:39 AM	R72045
Isopropylbenzene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
4-Isopropyltoluene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
4-Methyl-2-pentanone	ND	200		µg/L	20	9/22/2020 4:20:39 AM	R72045
Methylene Chloride	ND	60		µg/L	20	9/22/2020 4:20:39 AM	R72045
n-Butylbenzene	ND	60		µg/L	20	9/22/2020 4:20:39 AM	R72045
n-Propylbenzene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
sec-Butylbenzene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Styrene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
tert-Butylbenzene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	9/22/2020 4:20:39 AM	R72045
Tetrachloroethene (PCE)	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
trans-1,2-DCE	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
trans-1,3-Dichloropropene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,2,3-Trichlorobenzene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,2,4-Trichlorobenzene	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,1,1-Trichloroethane	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,1,2-Trichloroethane	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Trichloroethene (TCE)	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Trichlorofluoromethane	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
1,2,3-Trichloropropane	ND	40		µg/L	20	9/22/2020 4:20:39 AM	R72045
Vinyl chloride	ND	20		µg/L	20	9/22/2020 4:20:39 AM	R72045
Xylenes, Total	83	30		µg/L	20	9/22/2020 4:20:39 AM	R72045
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%Rec	20	9/22/2020 4:20:39 AM	R72045
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	20	9/22/2020 4:20:39 AM	R72045
Surr: Dibromofluoromethane	111	70-130		%Rec	20	9/22/2020 4:20:39 AM	R72045
Surr: Toluene-d8	99.0	70-130		%Rec	20	9/22/2020 4:20:39 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: MW-11 Shalllow HS
Project: Former Y Station
Collection Date: 9/15/2020 9:20:00 AM
Lab ID: 2009A54-011
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	0.74	0.47		µg/L	50	9/23/2020 1:29:15 AM	55339
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	3300	200		µg/L	200	9/22/2020 4:49:05 AM	R72045
Toluene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Ethylbenzene	230	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,2,4-Trimethylbenzene	130	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,3,5-Trimethylbenzene	35	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,2-Dichloroethane (EDC)	140	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Naphthalene	34	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1-Methylnaphthalene	ND	80		µg/L	20	9/22/2020 5:17:39 AM	R72045
2-Methylnaphthalene	ND	80		µg/L	20	9/22/2020 5:17:39 AM	R72045
Acetone	ND	200		µg/L	20	9/22/2020 5:17:39 AM	R72045
Bromobenzene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Bromodichloromethane	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Bromoform	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Bromomethane	ND	60		µg/L	20	9/22/2020 5:17:39 AM	R72045
2-Butanone	ND	200		µg/L	20	9/22/2020 5:17:39 AM	R72045
Carbon disulfide	ND	200		µg/L	20	9/22/2020 5:17:39 AM	R72045
Carbon Tetrachloride	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Chlorobenzene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Chloroethane	ND	40		µg/L	20	9/22/2020 5:17:39 AM	R72045
Chloroform	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Chloromethane	ND	60		µg/L	20	9/22/2020 5:17:39 AM	R72045
2-Chlorotoluene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
4-Chlorotoluene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
cis-1,2-DCE	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
cis-1,3-Dichloropropene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	9/22/2020 5:17:39 AM	R72045
Dibromochloromethane	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Dibromomethane	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,2-Dichlorobenzene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,3-Dichlorobenzene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,4-Dichlorobenzene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Dichlorodifluoromethane	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,1-Dichloroethane	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,1-Dichloroethene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,2-Dichloropropane	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: MW-11 Shalllow HS
Project: Former Y Station
Collection Date: 9/15/2020 9:20:00 AM
Lab ID: 2009A54-011
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
2,2-Dichloropropane	ND	40		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,1-Dichloropropene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Hexachlorobutadiene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
2-Hexanone	ND	200		µg/L	20	9/22/2020 5:17:39 AM	R72045
Isopropylbenzene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
4-Isopropyltoluene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
4-Methyl-2-pentanone	ND	200		µg/L	20	9/22/2020 5:17:39 AM	R72045
Methylene Chloride	ND	60		µg/L	20	9/22/2020 5:17:39 AM	R72045
n-Butylbenzene	ND	60		µg/L	20	9/22/2020 5:17:39 AM	R72045
n-Propylbenzene	13	10		µg/L	20	9/22/2020 5:17:39 AM	R72045
sec-Butylbenzene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Styrene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
tert-Butylbenzene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	9/22/2020 5:17:39 AM	R72045
Tetrachloroethene (PCE)	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
trans-1,2-DCE	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
trans-1,3-Dichloropropene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,2,3-Trichlorobenzene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,2,4-Trichlorobenzene	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,1,1-Trichloroethane	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,1,2-Trichloroethane	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Trichloroethene (TCE)	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Trichlorofluoromethane	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
1,2,3-Trichloropropane	ND	40		µg/L	20	9/22/2020 5:17:39 AM	R72045
Vinyl chloride	ND	20		µg/L	20	9/22/2020 5:17:39 AM	R72045
Xylenes, Total	100	30		µg/L	20	9/22/2020 5:17:39 AM	R72045
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%Rec	20	9/22/2020 5:17:39 AM	R72045
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	20	9/22/2020 5:17:39 AM	R72045
Surr: Dibromofluoromethane	105	70-130		%Rec	20	9/22/2020 5:17:39 AM	R72045
Surr: Toluene-d8	101	70-130		%Rec	20	9/22/2020 5:17:39 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-12
Project: Former Y Station **Collection Date:** 9/15/2020 6:27:00 PM
Lab ID: 2009A54-012 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	0.38	0.094		µg/L	10	9/23/2020 1:59:58 AM	55339
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	930	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Toluene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Ethylbenzene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,2,4-Trimethylbenzene	27	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,3,5-Trimethylbenzene	13	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,2-Dichloroethane (EDC)	68	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Naphthalene	ND	10		µg/L	10	9/22/2020 6:14:47 AM	R72045
1-Methylnaphthalene	ND	20		µg/L	10	9/22/2020 6:14:47 AM	R72045
2-Methylnaphthalene	ND	20		µg/L	10	9/22/2020 6:14:47 AM	R72045
Acetone	ND	50		µg/L	10	9/22/2020 6:14:47 AM	R72045
Bromobenzene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Bromodichloromethane	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Bromoform	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Bromomethane	ND	15		µg/L	10	9/22/2020 6:14:47 AM	R72045
2-Butanone	ND	50		µg/L	10	9/22/2020 6:14:47 AM	R72045
Carbon disulfide	ND	50		µg/L	10	9/22/2020 6:14:47 AM	R72045
Carbon Tetrachloride	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Chlorobenzene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Chloroethane	ND	10		µg/L	10	9/22/2020 6:14:47 AM	R72045
Chloroform	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Chloromethane	ND	15		µg/L	10	9/22/2020 6:14:47 AM	R72045
2-Chlorotoluene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
4-Chlorotoluene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
cis-1,2-DCE	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
cis-1,3-Dichloropropene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,2-Dibromo-3-chloropropane	ND	10		µg/L	10	9/22/2020 6:14:47 AM	R72045
Dibromochloromethane	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Dibromomethane	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,2-Dichlorobenzene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,3-Dichlorobenzene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,4-Dichlorobenzene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Dichlorodifluoromethane	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,1-Dichloroethane	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,1-Dichloroethene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,2-Dichloropropane	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-12
Project: Former Y Station **Collection Date:** 9/15/2020 6:27:00 PM
Lab ID: 2009A54-012 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
2,2-Dichloropropane	ND	10		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,1-Dichloropropene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Hexachlorobutadiene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
2-Hexanone	ND	50		µg/L	10	9/22/2020 6:14:47 AM	R72045
Isopropylbenzene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
4-Isopropyltoluene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
4-Methyl-2-pentanone	ND	50		µg/L	10	9/22/2020 6:14:47 AM	R72045
Methylene Chloride	ND	15		µg/L	10	9/22/2020 6:14:47 AM	R72045
n-Butylbenzene	ND	15		µg/L	10	9/22/2020 6:14:47 AM	R72045
n-Propylbenzene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
sec-Butylbenzene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Styrene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
tert-Butylbenzene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,1,2,2-Tetrachloroethane	ND	10		µg/L	10	9/22/2020 6:14:47 AM	R72045
Tetrachloroethene (PCE)	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
trans-1,2-DCE	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
trans-1,3-Dichloropropene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,2,3-Trichlorobenzene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,2,4-Trichlorobenzene	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,1,1-Trichloroethane	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,1,2-Trichloroethane	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Trichloroethene (TCE)	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Trichlorofluoromethane	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
1,2,3-Trichloropropane	ND	10		µg/L	10	9/22/2020 6:14:47 AM	R72045
Vinyl chloride	ND	5.0		µg/L	10	9/22/2020 6:14:47 AM	R72045
Xylenes, Total	78	7.5		µg/L	10	9/22/2020 6:14:47 AM	R72045
Surr: 1,2-Dichloroethane-d4	89.0	70-130		%Rec	10	9/22/2020 6:14:47 AM	R72045
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	10	9/22/2020 6:14:47 AM	R72045
Surr: Dibromofluoromethane	108	70-130		%Rec	10	9/22/2020 6:14:47 AM	R72045
Surr: Toluene-d8	99.0	70-130		%Rec	10	9/22/2020 6:14:47 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-13
Project: Former Y Station **Collection Date:** 9/12/2020 10:53:00 AM
Lab ID: 2009A54-013 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	0.039	0.0095		µg/L	1	9/23/2020 2:15:14 AM	55339
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	94	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Toluene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Ethylbenzene	7.5	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,2,4-Trimethylbenzene	9.8	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,3,5-Trimethylbenzene	2.8	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,2-Dichloroethane (EDC)	11	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Naphthalene	ND	2.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
2-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Acetone	ND	10		µg/L	1	9/22/2020 6:43:18 AM	R72045
Bromobenzene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Bromodichloromethane	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Bromoform	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Bromomethane	ND	3.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
2-Butanone	ND	10		µg/L	1	9/22/2020 6:43:18 AM	R72045
Carbon disulfide	ND	10		µg/L	1	9/22/2020 6:43:18 AM	R72045
Carbon Tetrachloride	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Chlorobenzene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Chloroethane	ND	2.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Chloroform	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Chloromethane	ND	3.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
2-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
4-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
cis-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Dibromochloromethane	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Dibromomethane	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,1-Dichloroethane	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,1-Dichloroethene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,2-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: MW-13
Project: Former Y Station
Collection Date: 9/12/2020 10:53:00 AM
Lab ID: 2009A54-013
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
2,2-Dichloropropane	ND	2.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,1-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Hexachlorobutadiene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
2-Hexanone	ND	10		µg/L	1	9/22/2020 6:43:18 AM	R72045
Isopropylbenzene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
4-Isopropyltoluene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
4-Methyl-2-pentanone	ND	10		µg/L	1	9/22/2020 6:43:18 AM	R72045
Methylene Chloride	ND	3.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
n-Butylbenzene	ND	3.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
n-Propylbenzene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
sec-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Styrene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
tert-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
trans-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Trichlorofluoromethane	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Vinyl chloride	ND	1.0		µg/L	1	9/22/2020 6:43:18 AM	R72045
Xylenes, Total	23	1.5		µg/L	1	9/22/2020 6:43:18 AM	R72045
Surr: 1,2-Dichloroethane-d4	87.7	70-130		%Rec	1	9/22/2020 6:43:18 AM	R72045
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/22/2020 6:43:18 AM	R72045
Surr: Dibromofluoromethane	107	70-130		%Rec	1	9/22/2020 6:43:18 AM	R72045
Surr: Toluene-d8	95.7	70-130		%Rec	1	9/22/2020 6:43:18 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-14
Project: Former Y Station **Collection Date:** 9/9/2020 4:15:00 PM
Lab ID: 2009A54-014 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	ND	0.0096		µg/L	1	9/23/2020 2:30:33 AM	55339
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Toluene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Ethylbenzene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Naphthalene	ND	2.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
2-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Acetone	ND	10		µg/L	1	9/22/2020 7:11:52 AM	R72045
Bromobenzene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Bromodichloromethane	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Bromoform	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Bromomethane	ND	3.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
2-Butanone	ND	10		µg/L	1	9/22/2020 7:11:52 AM	R72045
Carbon disulfide	ND	10		µg/L	1	9/22/2020 7:11:52 AM	R72045
Carbon Tetrachloride	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Chlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Chloroethane	ND	2.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Chloroform	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Chloromethane	ND	3.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
2-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
4-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
cis-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Dibromochloromethane	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Dibromomethane	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,1-Dichloroethane	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,1-Dichloroethene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,2-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-14
Project: Former Y Station **Collection Date:** 9/9/2020 4:15:00 PM
Lab ID: 2009A54-014 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
2,2-Dichloropropane	ND	2.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,1-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Hexachlorobutadiene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
2-Hexanone	ND	10		µg/L	1	9/22/2020 7:11:52 AM	R72045
Isopropylbenzene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
4-Isopropyltoluene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
4-Methyl-2-pentanone	ND	10		µg/L	1	9/22/2020 7:11:52 AM	R72045
Methylene Chloride	ND	3.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
n-Butylbenzene	ND	3.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
n-Propylbenzene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
sec-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Styrene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
tert-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
trans-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Trichlorofluoromethane	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Vinyl chloride	ND	1.0		µg/L	1	9/22/2020 7:11:52 AM	R72045
Xylenes, Total	ND	1.5		µg/L	1	9/22/2020 7:11:52 AM	R72045
Surr: 1,2-Dichloroethane-d4	90.7	70-130		%Rec	1	9/22/2020 7:11:52 AM	R72045
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	9/22/2020 7:11:52 AM	R72045
Surr: Dibromofluoromethane	111	70-130		%Rec	1	9/22/2020 7:11:52 AM	R72045
Surr: Toluene-d8	104	70-130		%Rec	1	9/22/2020 7:11:52 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-14 Deep HS
Project: Former Y Station **Collection Date:** 9/9/2020 11:10:00 AM
Lab ID: 2009A54-015 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	ND	0.0094		µg/L	1	9/23/2020 2:45:52 AM	55339
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Toluene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Ethylbenzene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Naphthalene	ND	2.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
2-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Acetone	ND	10		µg/L	1	9/22/2020 7:40:33 AM	R72045
Bromobenzene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Bromodichloromethane	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Bromoform	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Bromomethane	ND	3.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
2-Butanone	ND	10		µg/L	1	9/22/2020 7:40:33 AM	R72045
Carbon disulfide	ND	10		µg/L	1	9/22/2020 7:40:33 AM	R72045
Carbon Tetrachloride	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Chlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Chloroethane	ND	2.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Chloroform	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Chloromethane	ND	3.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
2-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
4-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
cis-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Dibromochloromethane	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Dibromomethane	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,1-Dichloroethane	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,1-Dichloroethene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,2-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: MW-14 Deep HS
Project: Former Y Station
Collection Date: 9/9/2020 11:10:00 AM
Lab ID: 2009A54-015
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
2,2-Dichloropropane	ND	2.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,1-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Hexachlorobutadiene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
2-Hexanone	ND	10		µg/L	1	9/22/2020 7:40:33 AM	R72045
Isopropylbenzene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
4-Isopropyltoluene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
4-Methyl-2-pentanone	ND	10		µg/L	1	9/22/2020 7:40:33 AM	R72045
Methylene Chloride	ND	3.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
n-Butylbenzene	ND	3.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
n-Propylbenzene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
sec-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Styrene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
tert-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
trans-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Trichlorofluoromethane	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Vinyl chloride	ND	1.0		µg/L	1	9/22/2020 7:40:33 AM	R72045
Xylenes, Total	ND	1.5		µg/L	1	9/22/2020 7:40:33 AM	R72045
Surr: 1,2-Dichloroethane-d4	91.4	70-130		%Rec	1	9/22/2020 7:40:33 AM	R72045
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/22/2020 7:40:33 AM	R72045
Surr: Dibromofluoromethane	110	70-130		%Rec	1	9/22/2020 7:40:33 AM	R72045
Surr: Toluene-d8	102	70-130		%Rec	1	9/22/2020 7:40:33 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: MW-14 Shallow HS
Project: Former Y Station
Collection Date: 9/9/2020 11:00:00 AM
Lab ID: 2009A54-016
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	ND	0.0094		µg/L	1	9/23/2020 3:01:15 AM	55339
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Toluene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Ethylbenzene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Naphthalene	ND	2.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
2-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Acetone	ND	10		µg/L	1	9/22/2020 8:09:00 AM	R72045
Bromobenzene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Bromodichloromethane	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Bromoform	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Bromomethane	ND	3.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
2-Butanone	ND	10		µg/L	1	9/22/2020 8:09:00 AM	R72045
Carbon disulfide	ND	10		µg/L	1	9/22/2020 8:09:00 AM	R72045
Carbon Tetrachloride	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Chlorobenzene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Chloroethane	ND	2.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Chloroform	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Chloromethane	ND	3.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
2-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
4-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
cis-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Dibromochloromethane	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Dibromomethane	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,1-Dichloroethane	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,1-Dichloroethene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,2-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: MW-14 Shallow HS
Project: Former Y Station
Collection Date: 9/9/2020 11:00:00 AM
Lab ID: 2009A54-016
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
2,2-Dichloropropane	ND	2.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,1-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Hexachlorobutadiene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
2-Hexanone	ND	10		µg/L	1	9/22/2020 8:09:00 AM	R72045
Isopropylbenzene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
4-Isopropyltoluene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
4-Methyl-2-pentanone	ND	10		µg/L	1	9/22/2020 8:09:00 AM	R72045
Methylene Chloride	ND	3.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
n-Butylbenzene	ND	3.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
n-Propylbenzene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
sec-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Styrene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
tert-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
trans-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Trichlorofluoromethane	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Vinyl chloride	ND	1.0		µg/L	1	9/22/2020 8:09:00 AM	R72045
Xylenes, Total	ND	1.5		µg/L	1	9/22/2020 8:09:00 AM	R72045
Surr: 1,2-Dichloroethane-d4	90.0	70-130		%Rec	1	9/22/2020 8:09:00 AM	R72045
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	9/22/2020 8:09:00 AM	R72045
Surr: Dibromofluoromethane	107	70-130		%Rec	1	9/22/2020 8:09:00 AM	R72045
Surr: Toluene-d8	99.7	70-130		%Rec	1	9/22/2020 8:09:00 AM	R72045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-15
Project: Former Y Station **Collection Date:** 9/10/2020 3:53:00 PM
Lab ID: 2009A54-017 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	ND	0.0095		µg/L	1	9/23/2020 3:16:32 AM	55339
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Toluene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Ethylbenzene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Naphthalene	ND	2.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
2-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Acetone	ND	10		µg/L	1	9/22/2020 4:39:42 PM	R72064
Bromobenzene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Bromodichloromethane	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Bromoform	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Bromomethane	ND	3.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
2-Butanone	ND	10		µg/L	1	9/22/2020 4:39:42 PM	R72064
Carbon disulfide	ND	10		µg/L	1	9/22/2020 4:39:42 PM	R72064
Carbon Tetrachloride	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Chlorobenzene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Chloroethane	ND	2.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Chloroform	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Chloromethane	ND	3.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
2-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
4-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
cis-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Dibromochloromethane	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Dibromomethane	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,1-Dichloroethane	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,1-Dichloroethene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,2-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-15
Project: Former Y Station **Collection Date:** 9/10/2020 3:53:00 PM
Lab ID: 2009A54-017 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
2,2-Dichloropropane	ND	2.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,1-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Hexachlorobutadiene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
2-Hexanone	ND	10		µg/L	1	9/22/2020 4:39:42 PM	R72064
Isopropylbenzene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
4-Isopropyltoluene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
4-Methyl-2-pentanone	ND	10		µg/L	1	9/22/2020 4:39:42 PM	R72064
Methylene Chloride	ND	3.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
n-Butylbenzene	ND	3.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
n-Propylbenzene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
sec-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Styrene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
tert-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
trans-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Trichlorofluoromethane	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Vinyl chloride	ND	1.0		µg/L	1	9/22/2020 4:39:42 PM	R72064
Xylenes, Total	ND	1.5		µg/L	1	9/22/2020 4:39:42 PM	R72064
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%Rec	1	9/22/2020 4:39:42 PM	R72064
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	9/22/2020 4:39:42 PM	R72064
Surr: Dibromofluoromethane	108	70-130		%Rec	1	9/22/2020 4:39:42 PM	R72064
Surr: Toluene-d8	96.9	70-130		%Rec	1	9/22/2020 4:39:42 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-16
Project: Former Y Station **Collection Date:** 9/11/2020 12:55:00 PM
Lab ID: 2009A54-018 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	0.66	0.19		µg/L	20	9/23/2020 3:31:47 AM	55339
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	920	20		µg/L	20	9/22/2020 6:05:07 PM	R72064
Toluene	11	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Ethylbenzene	34	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,2,4-Trimethylbenzene	40	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,3,5-Trimethylbenzene	13	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,2-Dichloroethane (EDC)	55	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Naphthalene	7.5	4.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1-Methylnaphthalene	ND	8.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
2-Methylnaphthalene	ND	8.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Acetone	ND	20		µg/L	2	9/22/2020 6:33:34 PM	R72064
Bromobenzene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Bromodichloromethane	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Bromoform	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Bromomethane	ND	6.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
2-Butanone	ND	20		µg/L	2	9/22/2020 6:33:34 PM	R72064
Carbon disulfide	ND	20		µg/L	2	9/22/2020 6:33:34 PM	R72064
Carbon Tetrachloride	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Chlorobenzene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Chloroethane	ND	4.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Chloroform	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Chloromethane	ND	6.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
2-Chlorotoluene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
4-Chlorotoluene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
cis-1,2-DCE	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Dibromochloromethane	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Dibromomethane	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,2-Dichlorobenzene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,3-Dichlorobenzene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,4-Dichlorobenzene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Dichlorodifluoromethane	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,1-Dichloroethane	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,1-Dichloroethene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,2-Dichloropropane	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-16
Project: Former Y Station **Collection Date:** 9/11/2020 12:55:00 PM
Lab ID: 2009A54-018 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
2,2-Dichloropropane	ND	4.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,1-Dichloropropene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Hexachlorobutadiene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
2-Hexanone	ND	20		µg/L	2	9/22/2020 6:33:34 PM	R72064
Isopropylbenzene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
4-Isopropyltoluene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
4-Methyl-2-pentanone	ND	20		µg/L	2	9/22/2020 6:33:34 PM	R72064
Methylene Chloride	ND	6.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
n-Butylbenzene	ND	6.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
n-Propylbenzene	2.5	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
sec-Butylbenzene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Styrene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
tert-Butylbenzene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
trans-1,2-DCE	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,1,1-Trichloroethane	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,1,2-Trichloroethane	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Trichloroethene (TCE)	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Trichlorofluoromethane	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
1,2,3-Trichloropropane	ND	4.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Vinyl chloride	ND	2.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Xylenes, Total	300	3.0		µg/L	2	9/22/2020 6:33:34 PM	R72064
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%Rec	2	9/22/2020 6:33:34 PM	R72064
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	2	9/22/2020 6:33:34 PM	R72064
Surr: Dibromofluoromethane	111	70-130		%Rec	2	9/22/2020 6:33:34 PM	R72064
Surr: Toluene-d8	94.7	70-130		%Rec	2	9/22/2020 6:33:34 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-17
Project: Former Y Station **Collection Date:** 9/10/2020 6:06:00 PM
Lab ID: 2009A54-019 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	ND	0.0095		µg/L	1	9/23/2020 3:47:04 AM	55339
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Toluene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Ethylbenzene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Naphthalene	ND	2.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
2-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Acetone	ND	10		µg/L	1	9/22/2020 7:02:04 PM	R72064
Bromobenzene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Bromodichloromethane	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Bromoform	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Bromomethane	ND	3.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
2-Butanone	ND	10		µg/L	1	9/22/2020 7:02:04 PM	R72064
Carbon disulfide	ND	10		µg/L	1	9/22/2020 7:02:04 PM	R72064
Carbon Tetrachloride	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Chlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Chloroethane	ND	2.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Chloroform	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Chloromethane	ND	3.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
2-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
4-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
cis-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Dibromochloromethane	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Dibromomethane	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,1-Dichloroethane	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,1-Dichloroethene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,2-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-17
Project: Former Y Station **Collection Date:** 9/10/2020 6:06:00 PM
Lab ID: 2009A54-019 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
2,2-Dichloropropane	ND	2.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,1-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Hexachlorobutadiene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
2-Hexanone	ND	10		µg/L	1	9/22/2020 7:02:04 PM	R72064
Isopropylbenzene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
4-Isopropyltoluene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
4-Methyl-2-pentanone	ND	10		µg/L	1	9/22/2020 7:02:04 PM	R72064
Methylene Chloride	ND	3.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
n-Butylbenzene	ND	3.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
n-Propylbenzene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
sec-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Styrene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
tert-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
trans-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Trichlorofluoromethane	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Vinyl chloride	ND	1.0		µg/L	1	9/22/2020 7:02:04 PM	R72064
Xylenes, Total	ND	1.5		µg/L	1	9/22/2020 7:02:04 PM	R72064
Surr: 1,2-Dichloroethane-d4	93.5	70-130		%Rec	1	9/22/2020 7:02:04 PM	R72064
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	9/22/2020 7:02:04 PM	R72064
Surr: Dibromofluoromethane	111	70-130		%Rec	1	9/22/2020 7:02:04 PM	R72064
Surr: Toluene-d8	102	70-130		%Rec	1	9/22/2020 7:02:04 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** RW-1
Project: Former Y Station **Collection Date:** 9/15/2020 8:31:00 AM
Lab ID: 2009A54-020 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	1.7	0.093		µg/L	10	9/23/2020 4:02:21 AM	55339
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	650	20		µg/L	20	9/22/2020 7:30:31 PM	R72064
Toluene	230	20		µg/L	20	9/22/2020 7:30:31 PM	R72064
Ethylbenzene	49	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,2,4-Trimethylbenzene	48	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,3,5-Trimethylbenzene	14	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,2-Dichloroethane (EDC)	22	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,2-Dibromoethane (EDB)	2.4	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Naphthalene	14	4.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1-Methylnaphthalene	ND	8.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
2-Methylnaphthalene	ND	8.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Acetone	ND	20		µg/L	2	9/22/2020 7:58:59 PM	R72064
Bromobenzene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Bromodichloromethane	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Bromoform	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Bromomethane	ND	6.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
2-Butanone	ND	20		µg/L	2	9/22/2020 7:58:59 PM	R72064
Carbon disulfide	ND	20		µg/L	2	9/22/2020 7:58:59 PM	R72064
Carbon Tetrachloride	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Chlorobenzene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Chloroethane	ND	4.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Chloroform	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Chloromethane	ND	6.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
2-Chlorotoluene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
4-Chlorotoluene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
cis-1,2-DCE	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Dibromochloromethane	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Dibromomethane	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,2-Dichlorobenzene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,3-Dichlorobenzene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,4-Dichlorobenzene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Dichlorodifluoromethane	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,1-Dichloroethane	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,1-Dichloroethene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,2-Dichloropropane	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: RW-1
Project: Former Y Station
Collection Date: 9/15/2020 8:31:00 AM
Lab ID: 2009A54-020
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
2,2-Dichloropropane	ND	4.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,1-Dichloropropene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Hexachlorobutadiene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
2-Hexanone	ND	20		µg/L	2	9/22/2020 7:58:59 PM	R72064
Isopropylbenzene	2.7	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
4-Isopropyltoluene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
4-Methyl-2-pentanone	ND	20		µg/L	2	9/22/2020 7:58:59 PM	R72064
Methylene Chloride	ND	6.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
n-Butylbenzene	ND	6.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
n-Propylbenzene	4.1	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
sec-Butylbenzene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Styrene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
tert-Butylbenzene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
trans-1,2-DCE	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,1,1-Trichloroethane	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,1,2-Trichloroethane	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Trichloroethene (TCE)	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Trichlorofluoromethane	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
1,2,3-Trichloropropane	ND	4.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Vinyl chloride	ND	2.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Xylenes, Total	120	3.0		µg/L	2	9/22/2020 7:58:59 PM	R72064
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%Rec	2	9/22/2020 7:58:59 PM	R72064
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	2	9/22/2020 7:58:59 PM	R72064
Surr: Dibromofluoromethane	106	70-130		%Rec	2	9/22/2020 7:58:59 PM	R72064
Surr: Toluene-d8	97.5	70-130		%Rec	2	9/22/2020 7:58:59 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: RW-2
Project: Former Y Station
Collection Date: 9/15/2020 8:20:00 PM
Lab ID: 2009A54-021
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	2.6	0.94		µg/L	100	9/23/2020 4:17:34 AM	55339
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	2500	100		µg/L	100	9/22/2020 8:27:25 PM	R72064
Toluene	2600	100		µg/L	100	9/22/2020 8:27:25 PM	R72064
Ethylbenzene	180	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,2,4-Trimethylbenzene	150	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,3,5-Trimethylbenzene	38	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,2-Dichloroethane (EDC)	25	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
Naphthalene	41	20		µg/L	10	9/22/2020 8:55:53 PM	R72064
1-Methylnaphthalene	ND	40		µg/L	10	9/22/2020 8:55:53 PM	R72064
2-Methylnaphthalene	ND	40		µg/L	10	9/22/2020 8:55:53 PM	R72064
Acetone	ND	100		µg/L	10	9/22/2020 8:55:53 PM	R72064
Bromobenzene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
Bromodichloromethane	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
Bromoform	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
Bromomethane	ND	30		µg/L	10	9/22/2020 8:55:53 PM	R72064
2-Butanone	ND	100		µg/L	10	9/22/2020 8:55:53 PM	R72064
Carbon disulfide	ND	100		µg/L	10	9/22/2020 8:55:53 PM	R72064
Carbon Tetrachloride	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
Chlorobenzene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
Chloroethane	ND	20		µg/L	10	9/22/2020 8:55:53 PM	R72064
Chloroform	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
Chloromethane	ND	30		µg/L	10	9/22/2020 8:55:53 PM	R72064
2-Chlorotoluene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
4-Chlorotoluene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
cis-1,2-DCE	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
cis-1,3-Dichloropropene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	9/22/2020 8:55:53 PM	R72064
Dibromochloromethane	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
Dibromomethane	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,2-Dichlorobenzene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,3-Dichlorobenzene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,4-Dichlorobenzene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
Dichlorodifluoromethane	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,1-Dichloroethane	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,1-Dichloroethene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,2-Dichloropropane	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** RW-2
Project: Former Y Station **Collection Date:** 9/15/2020 8:20:00 PM
Lab ID: 2009A54-021 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
2,2-Dichloropropane	ND	20		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,1-Dichloropropene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
Hexachlorobutadiene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
2-Hexanone	ND	100		µg/L	10	9/22/2020 8:55:53 PM	R72064
Isopropylbenzene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
4-Isopropyltoluene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
4-Methyl-2-pentanone	ND	100		µg/L	10	9/22/2020 8:55:53 PM	R72064
Methylene Chloride	ND	30		µg/L	10	9/22/2020 8:55:53 PM	R72064
n-Butylbenzene	ND	30		µg/L	10	9/22/2020 8:55:53 PM	R72064
n-Propylbenzene	19	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
sec-Butylbenzene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
Styrene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
tert-Butylbenzene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	9/22/2020 8:55:53 PM	R72064
Tetrachloroethene (PCE)	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
trans-1,2-DCE	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
trans-1,3-Dichloropropene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,2,3-Trichlorobenzene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,2,4-Trichlorobenzene	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,1,1-Trichloroethane	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,1,2-Trichloroethane	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
Trichloroethene (TCE)	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
Trichlorofluoromethane	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
1,2,3-Trichloropropane	ND	20		µg/L	10	9/22/2020 8:55:53 PM	R72064
Vinyl chloride	ND	10		µg/L	10	9/22/2020 8:55:53 PM	R72064
Xylenes, Total	800	15		µg/L	10	9/22/2020 8:55:53 PM	R72064
Surr: 1,2-Dichloroethane-d4	97.2	70-130		%Rec	10	9/22/2020 8:55:53 PM	R72064
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	10	9/22/2020 8:55:53 PM	R72064
Surr: Dibromofluoromethane	110	70-130		%Rec	10	9/22/2020 8:55:53 PM	R72064
Surr: Toluene-d8	99.6	70-130		%Rec	10	9/22/2020 8:55:53 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** RW-3
Project: Former Y Station **Collection Date:** 9/16/2020 11:18:00 AM
Lab ID: 2009A54-022 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	33	9.4		µg/L	1E+	9/23/2020 4:47:53 AM	55339
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	4000	200		µg/L	200	9/22/2020 9:24:20 PM	R72064
Toluene	2900	200		µg/L	200	9/22/2020 9:24:20 PM	R72064
Ethylbenzene	280	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,2,4-Trimethylbenzene	280	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,3,5-Trimethylbenzene	78	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,2-Dichloroethane (EDC)	190	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,2-Dibromoethane (EDB)	31	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
Naphthalene	68	40		µg/L	20	9/22/2020 9:52:45 PM	R72064
1-Methylnaphthalene	ND	80		µg/L	20	9/22/2020 9:52:45 PM	R72064
2-Methylnaphthalene	ND	80		µg/L	20	9/22/2020 9:52:45 PM	R72064
Acetone	ND	200		µg/L	20	9/22/2020 9:52:45 PM	R72064
Bromobenzene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
Bromodichloromethane	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
Bromoform	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
Bromomethane	ND	60		µg/L	20	9/22/2020 9:52:45 PM	R72064
2-Butanone	ND	200		µg/L	20	9/22/2020 9:52:45 PM	R72064
Carbon disulfide	ND	200		µg/L	20	9/22/2020 9:52:45 PM	R72064
Carbon Tetrachloride	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
Chlorobenzene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
Chloroethane	ND	40		µg/L	20	9/22/2020 9:52:45 PM	R72064
Chloroform	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
Chloromethane	ND	60		µg/L	20	9/22/2020 9:52:45 PM	R72064
2-Chlorotoluene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
4-Chlorotoluene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
cis-1,2-DCE	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
cis-1,3-Dichloropropene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	9/22/2020 9:52:45 PM	R72064
Dibromochloromethane	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
Dibromomethane	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,2-Dichlorobenzene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,3-Dichlorobenzene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,4-Dichlorobenzene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
Dichlorodifluoromethane	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,1-Dichloroethane	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,1-Dichloroethene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,2-Dichloropropane	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: RW-3
Project: Former Y Station
Collection Date: 9/16/2020 11:18:00 AM
Lab ID: 2009A54-022
Matrix: GROUNDWA
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
2,2-Dichloropropane	ND	40		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,1-Dichloropropene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
Hexachlorobutadiene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
2-Hexanone	ND	200		µg/L	20	9/22/2020 9:52:45 PM	R72064
Isopropylbenzene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
4-Isopropyltoluene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
4-Methyl-2-pentanone	ND	200		µg/L	20	9/22/2020 9:52:45 PM	R72064
Methylene Chloride	ND	60		µg/L	20	9/22/2020 9:52:45 PM	R72064
n-Butylbenzene	ND	60		µg/L	20	9/22/2020 9:52:45 PM	R72064
n-Propylbenzene	37	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
sec-Butylbenzene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
Styrene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
tert-Butylbenzene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	9/22/2020 9:52:45 PM	R72064
Tetrachloroethene (PCE)	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
trans-1,2-DCE	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
trans-1,3-Dichloropropene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,2,3-Trichlorobenzene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,2,4-Trichlorobenzene	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,1,1-Trichloroethane	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,1,2-Trichloroethane	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
Trichloroethene (TCE)	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
Trichlorofluoromethane	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
1,2,3-Trichloropropane	ND	40		µg/L	20	9/22/2020 9:52:45 PM	R72064
Vinyl chloride	ND	20		µg/L	20	9/22/2020 9:52:45 PM	R72064
Xylenes, Total	1900	30		µg/L	20	9/22/2020 9:52:45 PM	R72064
Surr: 1,2-Dichloroethane-d4	90.6	70-130		%Rec	20	9/22/2020 9:52:45 PM	R72064
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	20	9/22/2020 9:52:45 PM	R72064
Surr: Dibromofluoromethane	108	70-130		%Rec	20	9/22/2020 9:52:45 PM	R72064
Surr: Toluene-d8	99.3	70-130		%Rec	20	9/22/2020 9:52:45 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** RW-4
Project: Former Y Station **Collection Date:** 9/12/2020 3:35:00 PM
Lab ID: 2009A54-023 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	9.7	0.94		µg/L	100	9/23/2020 5:03:07 AM	55339
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	1400	100		µg/L	100	9/22/2020 10:21:10 PM	R72064
Toluene	600	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Ethylbenzene	92	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,2,4-Trimethylbenzene	69	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,3,5-Trimethylbenzene	18	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,2-Dichloroethane (EDC)	91	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Naphthalene	ND	20		µg/L	10	9/22/2020 10:49:35 PM	R72064
1-Methylnaphthalene	ND	40		µg/L	10	9/22/2020 10:49:35 PM	R72064
2-Methylnaphthalene	ND	40		µg/L	10	9/22/2020 10:49:35 PM	R72064
Acetone	ND	100		µg/L	10	9/22/2020 10:49:35 PM	R72064
Bromobenzene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Bromodichloromethane	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Bromoform	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Bromomethane	ND	30		µg/L	10	9/22/2020 10:49:35 PM	R72064
2-Butanone	ND	100		µg/L	10	9/22/2020 10:49:35 PM	R72064
Carbon disulfide	ND	100		µg/L	10	9/22/2020 10:49:35 PM	R72064
Carbon Tetrachloride	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Chlorobenzene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Chloroethane	ND	20		µg/L	10	9/22/2020 10:49:35 PM	R72064
Chloroform	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Chloromethane	ND	30		µg/L	10	9/22/2020 10:49:35 PM	R72064
2-Chlorotoluene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
4-Chlorotoluene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
cis-1,2-DCE	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
cis-1,3-Dichloropropene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	9/22/2020 10:49:35 PM	R72064
Dibromochloromethane	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Dibromomethane	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,2-Dichlorobenzene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,3-Dichlorobenzene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,4-Dichlorobenzene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Dichlorodifluoromethane	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,1-Dichloroethane	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,1-Dichloroethene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,2-Dichloropropane	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** RW-4
Project: Former Y Station **Collection Date:** 9/12/2020 3:35:00 PM
Lab ID: 2009A54-023 **Matrix:** GROUNDWA **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
2,2-Dichloropropane	ND	20		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,1-Dichloropropene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Hexachlorobutadiene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
2-Hexanone	ND	100		µg/L	10	9/22/2020 10:49:35 PM	R72064
Isopropylbenzene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
4-Isopropyltoluene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
4-Methyl-2-pentanone	ND	100		µg/L	10	9/22/2020 10:49:35 PM	R72064
Methylene Chloride	ND	30		µg/L	10	9/22/2020 10:49:35 PM	R72064
n-Butylbenzene	ND	30		µg/L	10	9/22/2020 10:49:35 PM	R72064
n-Propylbenzene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
sec-Butylbenzene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Styrene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
tert-Butylbenzene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	9/22/2020 10:49:35 PM	R72064
Tetrachloroethene (PCE)	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
trans-1,2-DCE	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
trans-1,3-Dichloropropene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,2,3-Trichlorobenzene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,2,4-Trichlorobenzene	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,1,1-Trichloroethane	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,1,2-Trichloroethane	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Trichloroethene (TCE)	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Trichlorofluoromethane	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
1,2,3-Trichloropropane	ND	20		µg/L	10	9/22/2020 10:49:35 PM	R72064
Vinyl chloride	ND	10		µg/L	10	9/22/2020 10:49:35 PM	R72064
Xylenes, Total	300	15		µg/L	10	9/22/2020 10:49:35 PM	R72064
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%Rec	10	9/22/2020 10:49:35 PM	R72064
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	10	9/22/2020 10:49:35 PM	R72064
Surr: Dibromofluoromethane	102	70-130		%Rec	10	9/22/2020 10:49:35 PM	R72064
Surr: Toluene-d8	99.3	70-130		%Rec	10	9/22/2020 10:49:35 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** Trip Blank
Project: Former Y Station **Collection Date:**
Lab ID: 2009A54-024 **Matrix:** AQUEOUS **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **mb**	
1,2-Dibromoethane	ND	0.0095		µg/L	1	9/23/2020 5:18:21 AM	55339
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Toluene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Ethylbenzene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Naphthalene	ND	2.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
2-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Acetone	ND	10		µg/L	1	9/22/2020 11:18:12 PM	R72064
Bromobenzene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Bromodichloromethane	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Bromoform	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Bromomethane	ND	3.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
2-Butanone	ND	10		µg/L	1	9/22/2020 11:18:12 PM	R72064
Carbon disulfide	ND	10		µg/L	1	9/22/2020 11:18:12 PM	R72064
Carbon Tetrachloride	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Chlorobenzene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Chloroethane	ND	2.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Chloroform	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Chloromethane	ND	3.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
2-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
4-Chlorotoluene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
cis-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Dibromochloromethane	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Dibromomethane	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,1-Dichloroethane	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,1-Dichloroethene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,2-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: Trip Blank
Project: Former Y Station
Collection Date:
Lab ID: 2009A54-024
Matrix: AQUEOUS
Received Date: 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
2,2-Dichloropropane	ND	2.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,1-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Hexachlorobutadiene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
2-Hexanone	ND	10		µg/L	1	9/22/2020 11:18:12 PM	R72064
Isopropylbenzene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
4-Isopropyltoluene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
4-Methyl-2-pentanone	ND	10		µg/L	1	9/22/2020 11:18:12 PM	R72064
Methylene Chloride	ND	3.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
n-Butylbenzene	ND	3.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
n-Propylbenzene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
sec-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Styrene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
tert-Butylbenzene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
trans-1,2-DCE	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Trichlorofluoromethane	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Vinyl chloride	ND	1.0		µg/L	1	9/22/2020 11:18:12 PM	R72064
Xylenes, Total	ND	1.5		µg/L	1	9/22/2020 11:18:12 PM	R72064
Surr: 1,2-Dichloroethane-d4	89.5	70-130		%Rec	1	9/22/2020 11:18:12 PM	R72064
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/22/2020 11:18:12 PM	R72064
Surr: Dibromofluoromethane	108	70-130		%Rec	1	9/22/2020 11:18:12 PM	R72064
Surr: Toluene-d8	98.6	70-130		%Rec	1	9/22/2020 11:18:12 PM	R72064

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009A54**

28-Sep-20

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: **MB-55338**	SampType: **MBLK**	TestCode: **EPA Method 8011/504.1: EDB**							
Client ID: **PBW**	Batch ID: **55338**	RunNo: **72065**							
Prep Date: **9/22/2020**	Analysis Date: **9/22/2020**	SeqNo: **2524753**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: **MB-55339**	SampType: **MBLK**	TestCode: **EPA Method 8011/504.1: EDB**							
Client ID: **PBW**	Batch ID: **55339**	RunNo: **72065**							
Prep Date: **9/22/2020**	Analysis Date: **9/22/2020**	SeqNo: **2524754**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: **LCS-55338**	SampType: **LCS**	TestCode: **EPA Method 8011/504.1: EDB**							
Client ID: **LCSW**	Batch ID: **55338**	RunNo: **72065**							
Prep Date: **9/22/2020**	Analysis Date: **9/22/2020**	SeqNo: **2524755**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.088	0.010	0.1000	0	88.1	70	130			

Sample ID: **LCS-55339**	SampType: **LCS**	TestCode: **EPA Method 8011/504.1: EDB**							
Client ID: **LCSW**	Batch ID: **55339**	RunNo: **72065**							
Prep Date: **9/22/2020**	Analysis Date: **9/22/2020**	SeqNo: **2524756**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.081	0.010	0.1000	0	81.5	70	130			

Sample ID: **LCSD-55338**	SampType: **LCSD**	TestCode: **EPA Method 8011/504.1: EDB**							
Client ID: **LCSS02**	Batch ID: **55338**	RunNo: **72065**							
Prep Date: **9/22/2020**	Analysis Date: **9/22/2020**	SeqNo: **2524757**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.082	0.010	0.1000	0	81.5	70	130	7.80	20	

Sample ID: **LCSD-55339**	SampType: **LCSD**	TestCode: **EPA Method 8011/504.1: EDB**							
Client ID: **LCSS02**	Batch ID: **55339**	RunNo: **72065**							
Prep Date: **9/22/2020**	Analysis Date: **9/22/2020**	SeqNo: **2524758**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.088	0.010	0.1000	0	87.7	70	130	7.39	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2009A54**
28-Sep-20

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station

Sample ID: **MB-55338**	SampType: **MBLK**	TestCode: **EPA Method 8011/504.1: EDB**							
Client ID: **PBW**	Batch ID: **55338**	RunNo: **72065**							
Prep Date: **9/22/2020**	Analysis Date: **9/22/2020**	SeqNo: **2524759**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: **MB-55339**	SampType: **MBLK**	TestCode: **EPA Method 8011/504.1: EDB**							
Client ID: **PBW**	Batch ID: **55339**	RunNo: **72065**							
Prep Date: **9/22/2020**	Analysis Date: **9/22/2020**	SeqNo: **2524760**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: **2009A54-004BMS**	SampType: **MS**	TestCode: **EPA Method 8011/504.1: EDB**							
Client ID: **BW-8**	Batch ID: **55338**	RunNo: **72065**							
Prep Date: **9/22/2020**	Analysis Date: **9/23/2020**	SeqNo: **2524773**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.0094	0.09383	0.09214	25.8	65	135			S

Sample ID: **2009A54-004BMSD**	SampType: **MSD**	TestCode: **EPA Method 8011/504.1: EDB**							
Client ID: **BW-8**	Batch ID: **55338**	RunNo: **72065**							
Prep Date: **9/22/2020**	Analysis Date: **9/23/2020**	SeqNo: **2524774**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.0094	0.09409	0.08321	38.3	65	135	2.41	20	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2009A54**
28-Sep-20

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R72045**	RunNo: **72045**
Prep Date:	Analysis Date: **9/21/2020**	SeqNo: **2523175** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2009A54**
28-Sep-20

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R72045**	RunNo: **72045**
Prep Date:	Analysis Date: **9/21/2020**	SeqNo: **2523175** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.1	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.6	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R72045**	RunNo: **72045**
Prep Date:	Analysis Date: **9/21/2020**	SeqNo: **2523176** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.4	70	130			
Toluene	19	1.0	20.00	0	96.6	70	130			
Chlorobenzene	20	1.0	20.00	0	99.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009A54**

28-Sep-20

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R72045**	RunNo: **72045**
Prep Date:	Analysis Date: **9/21/2020**	SeqNo: **2523176** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19	1.0	20.00	0	95.2	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	92.6	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		93.5	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		105	70	130			
Surr: Dibromofluoromethane	11		10.00		109	70	130			
Surr: Toluene-d8	9.8		10.00		97.9	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R72064**	RunNo: **72064**
Prep Date:	Analysis Date: **9/22/2020**	SeqNo: **2524690** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	100	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Chlorobenzene	20	1.0	20.00	0	99.6	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	105	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	98.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.7	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.6	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	9.7		10.00		96.8	70	130			

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R72064**	RunNo: **72064**
Prep Date:	Analysis Date: **9/22/2020**	SeqNo: **2524691** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2009A54**
28-Sep-20

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R72064**	RunNo: **72064**
Prep Date:	Analysis Date: **9/22/2020**	SeqNo: **2524691** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2009A54**
28-Sep-20

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R72064**	RunNo: **72064**
Prep Date:	Analysis Date: **9/22/2020**	SeqNo: **2524691** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.3	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.4	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.9		10.00		98.6	70	130			

Sample ID: **2009a54-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BW-4**	Batch ID: **R72064**	RunNo: **72064**
Prep Date:	Analysis Date: **9/22/2020**	SeqNo: **2524692** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	1.624	99.2	70	130			
Toluene	20	1.0	20.00	0	100	70	130			
Chlorobenzene	20	1.0	20.00	0	98.2	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	102	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	93.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.8	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	11		10.00		109	70	130			
Surr: Toluene-d8	9.9		10.00		98.8	70	130			

Sample ID: **2009a54-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BW-4**	Batch ID: **R72064**	RunNo: **72064**
Prep Date:	Analysis Date: **9/22/2020**	SeqNo: **2524693** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	1.624	95.6	70	130	3.43	20	
Toluene	20	1.0	20.00	0	99.7	70	130	0.608	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009A54**

28-Sep-20

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: **2009a54-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BW-4**	Batch ID: **R72064**	RunNo: **72064**
Prep Date:	Analysis Date: **9/22/2020**	SeqNo: **2524693** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlorobenzene	19	1.0	20.00	0	95.2	70	130	3.14	20	
1,1-Dichloroethene	20	1.0	20.00	0	97.9	70	130	4.16	20	
Trichloroethene (TCE)	19	1.0	20.00	0	95.2	70	130	2.11	20	
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.4	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		109	70	130	0	0	
Surr: Toluene-d8	9.7		10.00		97.0	70	130	0	0	

Sample ID: **2009a54-017a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-15**	Batch ID: **R72064**	RunNo: **72064**
Prep Date:	Analysis Date: **9/22/2020**	SeqNo: **2524695** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.9	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Chlorobenzene	20	1.0	20.00	0	101	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	103	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	95.1	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.0	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.1	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	10		10.00		99.8	70	130			

Sample ID: **2009a54-017a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-15**	Batch ID: **R72064**	RunNo: **72064**
Prep Date:	Analysis Date: **9/22/2020**	SeqNo: **2524696** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.7	70	130	0.252	20	
Toluene	20	1.0	20.00	0	99.7	70	130	5.41	20	
Chlorobenzene	20	1.0	20.00	0	101	70	130	0.0377	20	
1,1-Dichloroethene	20	1.0	20.00	0	99.7	70	130	3.27	20	
Trichloroethene (TCE)	18	1.0	20.00	0	91.1	70	130	4.20	20	
Surr: 1,2-Dichloroethane-d4	9.2		10.00		91.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		109	70	130	0	0	
Surr: Toluene-d8	10		10.00		103	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Daniel B. Stephens & Assoc.** Work Order Number: **2009A54** RcptNo: 1

Received By: **Andy Freeman** **9/17/2020 2:31:00 PM** Andy F

Completed By: **Leah Baca** **9/17/2020 2:50:29 PM** Leah S Baca

Reviewed By: DF 9/20/2020

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	FedEx		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	# of preserved bottles checked for pH: (<2 or >12 unless noted)
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good	Not Present			

Chain-of-Custody Record

Client: Daniel B. Stephens & Associates

Mailing Address: ABQ office

Phone #: 505-249-9402

email or Fax#: TGolden@geologic.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Former Y Station

Project #: DB18.1157.00.GWM20.2002

Project Manager: T. Golden

Sampler: Y. Morgan

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.7 +0.2 = 2.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2009A54
9-11-20	~~1830~~ 1446	GW	BW-4	5 VOA	Varies	-001
9-14-20	1720		BW-7	5		-002
9-12-20	1401		BW-7R	5		-003
9-15-20	1344		BW-8	6		-004
"	1225		BW-8 Deep HS	5		-005
"	1218		BW-8 Shallow HS	5		-006
9-11-20	0826		BW-9	5		-007
"	1033		BW-10	5		-008
9-15-20	1125		MW-11	5		-009
"	0925		MW-11 Deep HS	3		-010
"	0920		MW-11 Shallow HS	3		-011
"	1827		MW-12	5		-012

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	~~8260~~ 8260B (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9-17-20	~~1530~~ 1431				9/17/2020	1431
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

Page 1 of 2

Chain-of-Custody Record

Client: DBS+A

Mailing Address:

Phone #: 505-249-9402

email or Fax#: TGolden@geologic.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Former Y Station

Project #:

Project Manager: T. Golden

Sampler: Y. Morgan

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.7+0.2=2.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2009A54	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) 8260B	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9-12-20	1053	GW	MW-13	5 VOA	Varies	-013				X				X		
9-11-20	1615		MW-14			-014				X				X		
"	1110		MW-14 Deep HS			-015				X				X		
"	1100		MW-14 Shallow HS			-016				X				X		
9-10-20	1553		MW-15			-017				X				X		
9-11-20	1255		MW-16			-018				X				X		
9-10-20	1806		MW-17			-019				X				X		
9-15-20	0831		RW-1			-020				X				X		
"	0818 2020		RW-2			-021				X				X		
9-15-20	1118		RW-3			-022				X				X		
9-12-20	1535		RW-4			-023				X				X		

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
9-17-20	1430 1500	Yael Morgan				
					9/17/2020	1431

Date	Time	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Add: Trip Blank, 3 VOA, 8260B

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

September 22, 2020

Tom Golden

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX: (505) 822-8877

RE: Former Y Station OrderNo.: 2009A51

Dear Tom Golden:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/17/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: Equipment Blank
Project: Former Y Station
Collection Date: 9/16/2020 1:05:00 PM
Lab ID: 2009A51-001 **Matrix:** AQUEOUS **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	7.9	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Toluene	14	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Ethylbenzene	1.7	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,2,4-Trimethylbenzene	2.7	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Naphthalene	ND	2.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1-Methylnaphthalene	ND	4.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
2-Methylnaphthalene	ND	4.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Acetone	ND	10		µg/L	1	9/18/2020 2:29:00 PM	R71951
Bromobenzene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Bromodichloromethane	2.6	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Bromoform	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Bromomethane	ND	3.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
2-Butanone	ND	10		µg/L	1	9/18/2020 2:29:00 PM	R71951
Carbon disulfide	ND	10		µg/L	1	9/18/2020 2:29:00 PM	R71951
Carbon Tetrachloride	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Chlorobenzene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Chloroethane	ND	2.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Chloroform	12	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Chloromethane	ND	3.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
2-Chlorotoluene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
4-Chlorotoluene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
cis-1,2-DCE	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Dibromochloromethane	1.5	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Dibromomethane	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,1-Dichloroethane	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,1-Dichloroethene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,2-Dichloropropane	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,3-Dichloropropane	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
2,2-Dichloropropane	ND	2.0		µg/L	1	9/18/2020 2:29:00 PM	R71951

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: Equipment Blank
Project: Former Y Station
Collection Date: 9/16/2020 1:05:00 PM
Lab ID: 2009A51-001 **Matrix:** AQUEOUS **Received Date:** 9/17/2020 2:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,1-Dichloropropene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Hexachlorobutadiene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
2-Hexanone	ND	10		µg/L	1	9/18/2020 2:29:00 PM	R71951
Isopropylbenzene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
4-Isopropyltoluene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
4-Methyl-2-pentanone	ND	10		µg/L	1	9/18/2020 2:29:00 PM	R71951
Methylene Chloride	ND	3.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
n-Butylbenzene	ND	3.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
n-Propylbenzene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
sec-Butylbenzene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Styrene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
tert-Butylbenzene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
trans-1,2-DCE	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Trichlorofluoromethane	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Vinyl chloride	ND	1.0		µg/L	1	9/18/2020 2:29:00 PM	R71951
Xylenes, Total	11	1.5		µg/L	1	9/18/2020 2:29:00 PM	R71951
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	9/18/2020 2:29:00 PM	R71951
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	9/18/2020 2:29:00 PM	R71951
Surr: Dibromofluoromethane	111	70-130		%Rec	1	9/18/2020 2:29:00 PM	R71951
Surr: Toluene-d8	101	70-130		%Rec	1	9/18/2020 2:29:00 PM	R71951

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009A51**

22-Sep-20

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: **100NG 8260 LCS** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**

Client ID: **LCSW** Batch ID: **R71951** RunNo: **71951**

Prep Date: Analysis Date: **9/18/2020** SeqNo: **2519262** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	114	70	130			
Toluene	22	1.0	20.00	0	111	70	130			
Chlorobenzene	22	1.0	20.00	0	108	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	102	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	104	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**

Client ID: **PBW** Batch ID: **R71951** RunNo: **71951**

Prep Date: Analysis Date: **9/18/2020** SeqNo: **2519263** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2009A51**
22-Sep-20

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R71951**	RunNo: **71951**
Prep Date:	Analysis Date: **9/18/2020**	SeqNo: **2519263** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2009A51**
22-Sep-20

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R71951**	RunNo: **71951**
Prep Date:	Analysis Date: **9/18/2020**	SeqNo: **2519263** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.2		10.00		92.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Daniel B. Stephens & Assoc.** Work Order Number: **2009A51** RcptNo: 1

Received By: **Andy Freeman** **9/17/2020 2:31:00 PM**

Completed By: **Leah Baca** **9/17/2020 2:43:59 PM**

Reviewed By: JR 9/17/20

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	FedEx		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

IG 9/17/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good	Not Present			

Chain-of-Custody Record

Client: Daniel B Stephens & Associates

Mailing Address: ABQ office

Phone #: 505-249-9402

email or Fax#: TGolden@Geologic.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other______
☐ EDD (Type) ______

Turn-Around Time:
☐ Standard ☒ Rush 24 hrs

Project Name: Former Y Station

Project #: DB18.1157.00.GWM20.2002

Project Manager: T. Golden

Sampler: Y. Morgan

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 2.7+0.2=2.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2009A91	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	~~8260~~ 8260B (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)						
9-16-20	1305	DI	Equipment Blank	3 VOA	HgCl2	-001								X								

Yore Morgan

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9-17-20	~~1428~~ 1528	Yore Morgan	[signature]		9/17/2020	1431
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Page 1 of 1

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

September 25, 2020

Tom Golden

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX

RE: Former Y OrderNo.: 2009E87

Dear Tom Golden:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/24/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: Bennett Pump Rinsate
Project: Former Y
Collection Date: 9/24/2020 2:00:00 PM
Lab ID: 2009E87-001 **Matrix:** AQUEOUS **Received Date:** 9/24/2020 2:55:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Toluene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Ethylbenzene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Naphthalene	ND	2.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1-Methylnaphthalene	ND	4.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
2-Methylnaphthalene	ND	4.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Acetone	ND	10		µg/L	1	9/24/2020 6:02:58 PM	B72134
Bromobenzene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Bromodichloromethane	2.9	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Bromoform	1.2	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Bromomethane	ND	3.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
2-Butanone	ND	10		µg/L	1	9/24/2020 6:02:58 PM	B72134
Carbon disulfide	ND	10		µg/L	1	9/24/2020 6:02:58 PM	B72134
Carbon Tetrachloride	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Chlorobenzene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Chloroethane	ND	2.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Chloroform	11	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Chloromethane	ND	3.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
2-Chlorotoluene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
4-Chlorotoluene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
cis-1,2-DCE	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Dibromochloromethane	2.4	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Dibromomethane	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,1-Dichloroethane	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,1-Dichloroethene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,2-Dichloropropane	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,3-Dichloropropane	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
2,2-Dichloropropane	ND	2.0		µg/L	1	9/24/2020 6:02:58 PM	B72134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: Bennett Pump Rinsate
Project: Former Y
Collection Date: 9/24/2020 2:00:00 PM
Lab ID: 2009E87-001 **Matrix:** AQUEOUS **Received Date:** 9/24/2020 2:55:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Hexachlorobutadiene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
2-Hexanone	ND	10		µg/L	1	9/24/2020 6:02:58 PM	B72134
Isopropylbenzene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
4-Isopropyltoluene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
4-Methyl-2-pentanone	ND	10		µg/L	1	9/24/2020 6:02:58 PM	B72134
Methylene Chloride	ND	3.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
n-Butylbenzene	ND	3.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
n-Propylbenzene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
sec-Butylbenzene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Styrene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
tert-Butylbenzene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
trans-1,2-DCE	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Trichlorofluoromethane	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Vinyl chloride	ND	1.0		µg/L	1	9/24/2020 6:02:58 PM	B72134
Xylenes, Total	ND	1.5		µg/L	1	9/24/2020 6:02:58 PM	B72134
Surr: 1,2-Dichloroethane-d4	92.6	70-130		%Rec	1	9/24/2020 6:02:58 PM	B72134
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/24/2020 6:02:58 PM	B72134
Surr: Dibromofluoromethane	107	70-130		%Rec	1	9/24/2020 6:02:58 PM	B72134
Surr: Toluene-d8	99.4	70-130		%Rec	1	9/24/2020 6:02:58 PM	B72134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2009E87**
25-Sep-20

Client: Daniel B. Stephens & Assoc.
Project: Former Y

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B72134**	RunNo: **72134**
Prep Date:	Analysis Date: **9/24/2020**	SeqNo: **2528433** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009E87**

25-Sep-20

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B72134**	RunNo: **72134**
Prep Date:	Analysis Date: **9/24/2020**	SeqNo: **2528433** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.7		10.00		87.1	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	9.5		10.00		95.0	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **B72134**	RunNo: **72134**
Prep Date:	Analysis Date: **9/24/2020**	SeqNo: **2528434** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.8	70	130			
Toluene	19	1.0	20.00	0	95.7	70	130			
Chlorobenzene	19	1.0	20.00	0	95.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009E87**

25-Sep-20

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**							
Client ID: **LCSW**	Batch ID: **B72134**	RunNo: **72134**							
Prep Date:	Analysis Date: **9/24/2020**	SeqNo: **2528434**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20	1.0	20.00	0	101	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	93.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		93.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	9.5		10.00		95.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Daniel B. Stephens & Assoc.

Work Order Number: 2009E87

RcptNo: 1

Received By: **Erin Melendrez** 9/24/2020 2:55:00 PM

Completed By: **Erin Melendrez** 9/24/2020 3:01:41 PM

Reviewed By: JR 9/24/20

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐

Samples were collected the same day and chilled.

5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: EN MCV 24/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	11.2	Good				

Chain-of-Custody Record

Client: DB S&A

Mailing Address: 6020 Academy NE Suite 100
Albuquerque, NM 87109

Phone #: 505-822-9400

email or Fax#: tgolden@geo-logic.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 24 Hour

Project Name:
Fonron Y

Project #:
DB18.1157.00.OM020.01

Project Manager:
Tom Golden

Sampler: J. Fisher

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 11.7-0(CF)=11.7(°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2009E87	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9/24/2020	1400	GW	Bennett Pump Rinsate	3-voa	H_2SO_4	-001								X		

Date: 9/24/2020 Time: 1448 Relinquished by: [signature] DB S&A

Received by: [signature] Via: CDO Date: 9/24/20 Time: 1455

Date: Time: Relinquished by:

Received by: Via: Date: Time:

Remarks:
Please Also Send Results To
jfisher@geo-logic.com

9/24/2020

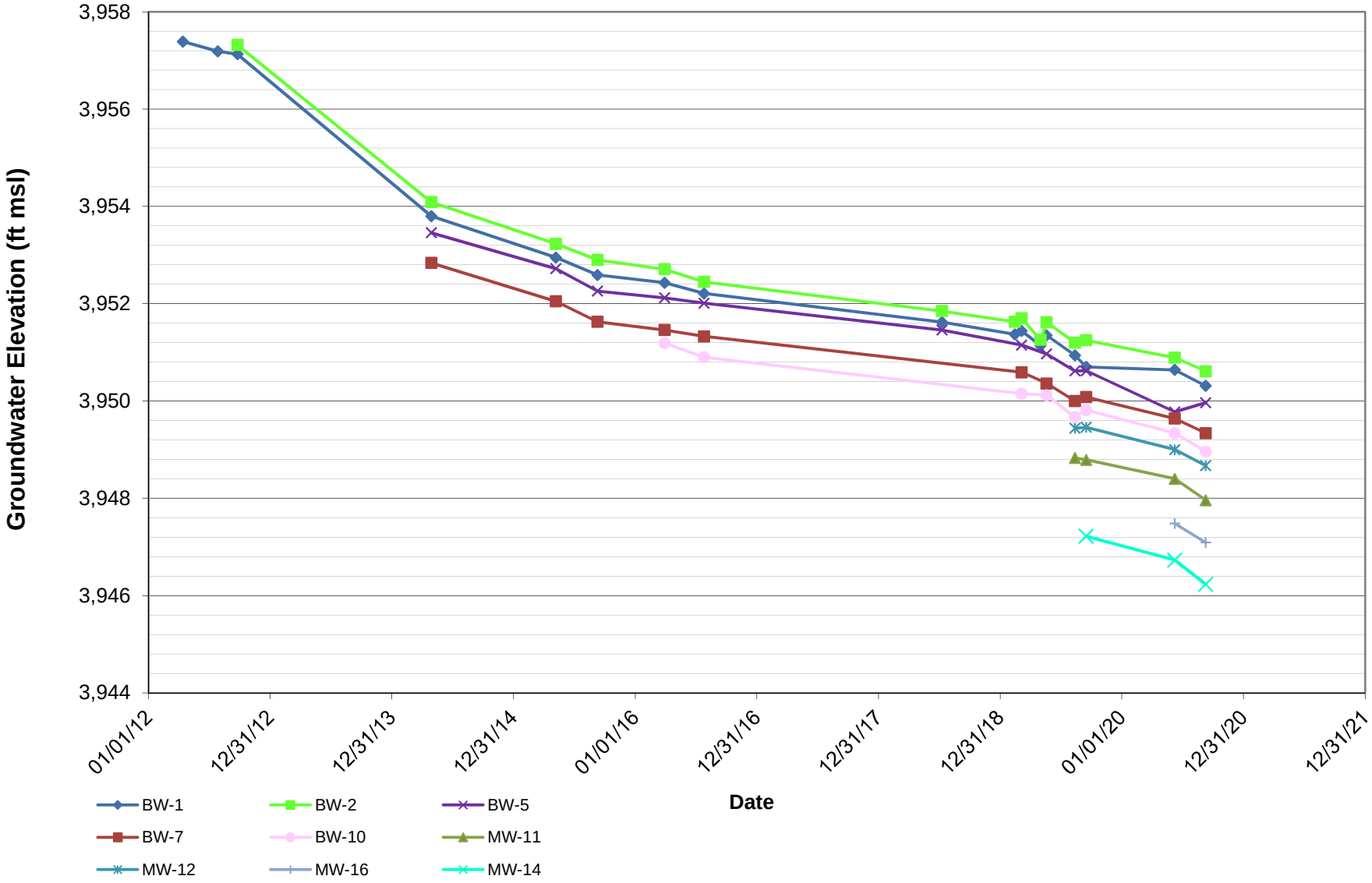
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Appendix D

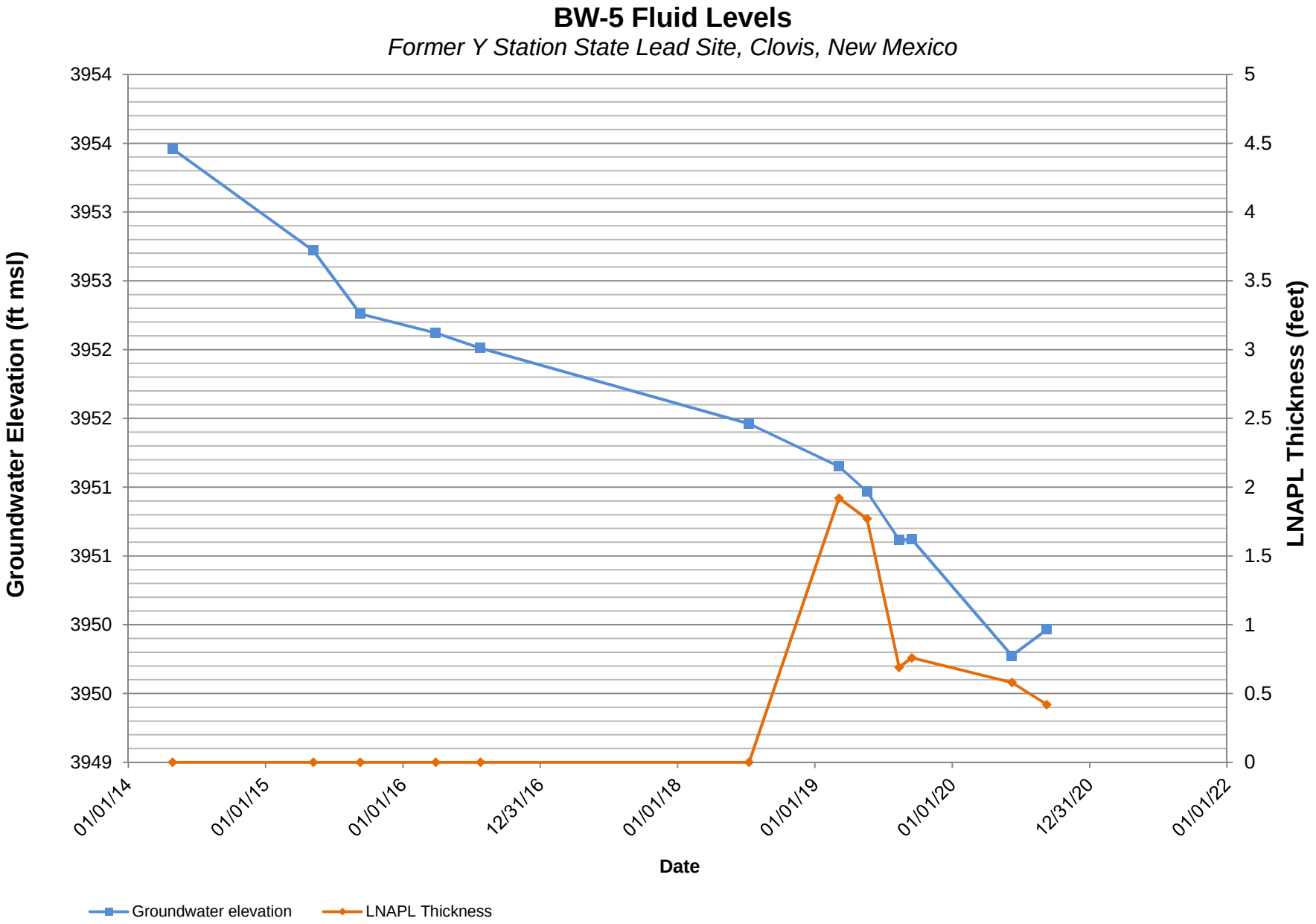
Time-Series Graphs

Groundwater Elevations

Former Y Station State Lead Site, Clovis, New Mexico

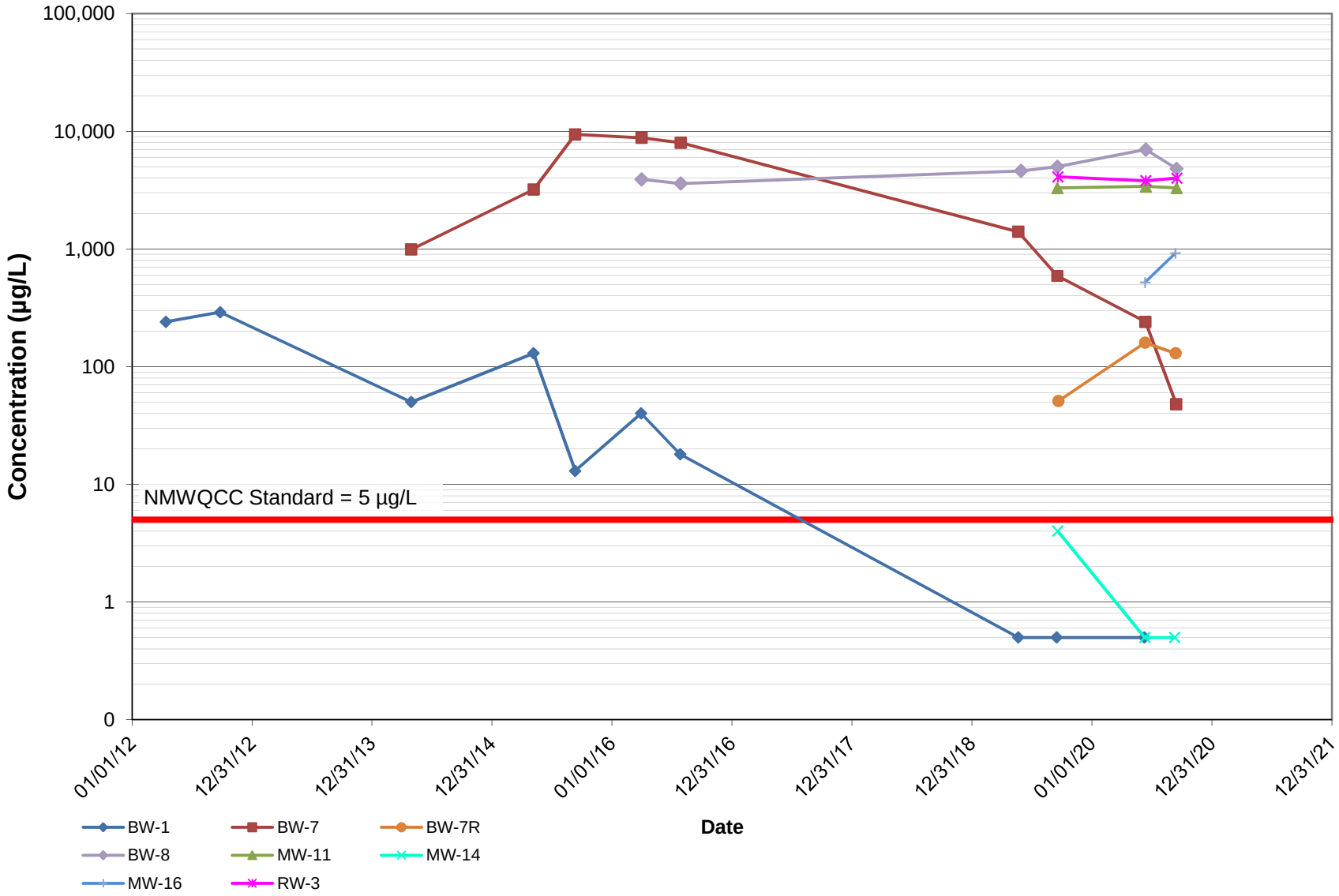


S:\Projects\DB18.1157_Former_Y_Station\Docs\Tables for Reports\Appx_Charts.xls GW Elevations


BW-5 Fluid Levels
Former Y Station State Lead Site, Clovis, New Mexico
Groundwater Elevation (ft msl)
LNAPL Thickness (feet)
3954
3954
3953
3953
3952
3952
3951
3951
3950
3950
3949
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
01/01/14
01/01/15
01/01/16
12/31/16
01/01/18
01/01/19
01/01/20
12/31/20
01/01/22
Date
Groundwater elevation
LNAPL Thickness

Benzene Concentrations

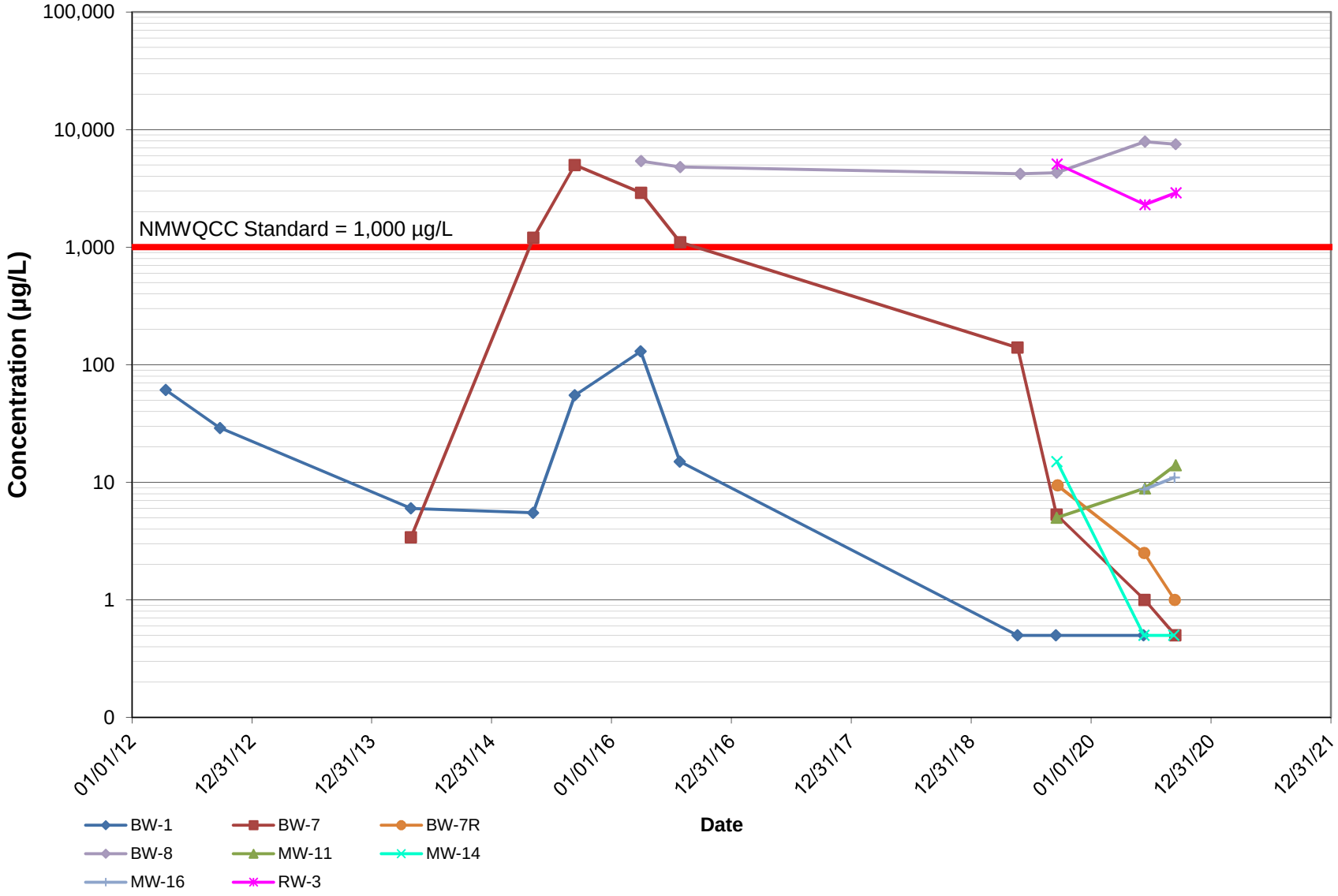
Former Y Station State Lead Site, Clovis, New Mexico



S:\Projects\DB18.1157_Former_Y_Station\Docs\Tables for Reports\Appx_Charts.xls Benzene

Toluene Concentrations

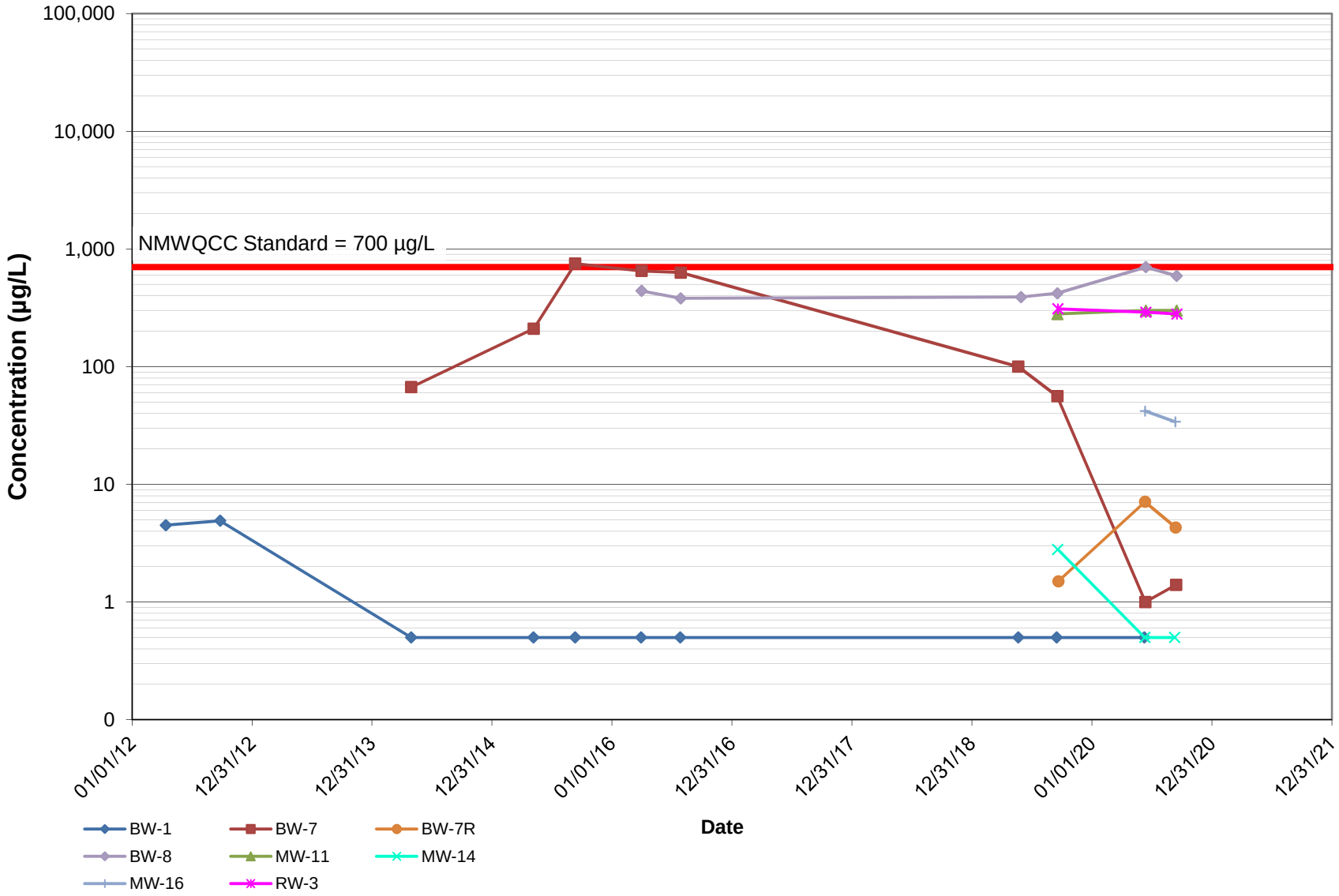
Former Y Station State Lead Site, Clovis, New Mexico



S:\Projects\DB18.1157_Former_Y_Station\Docs\Tables for Reports\Appx_Charts.xls Toluene

Ethylbenzene Concentrations

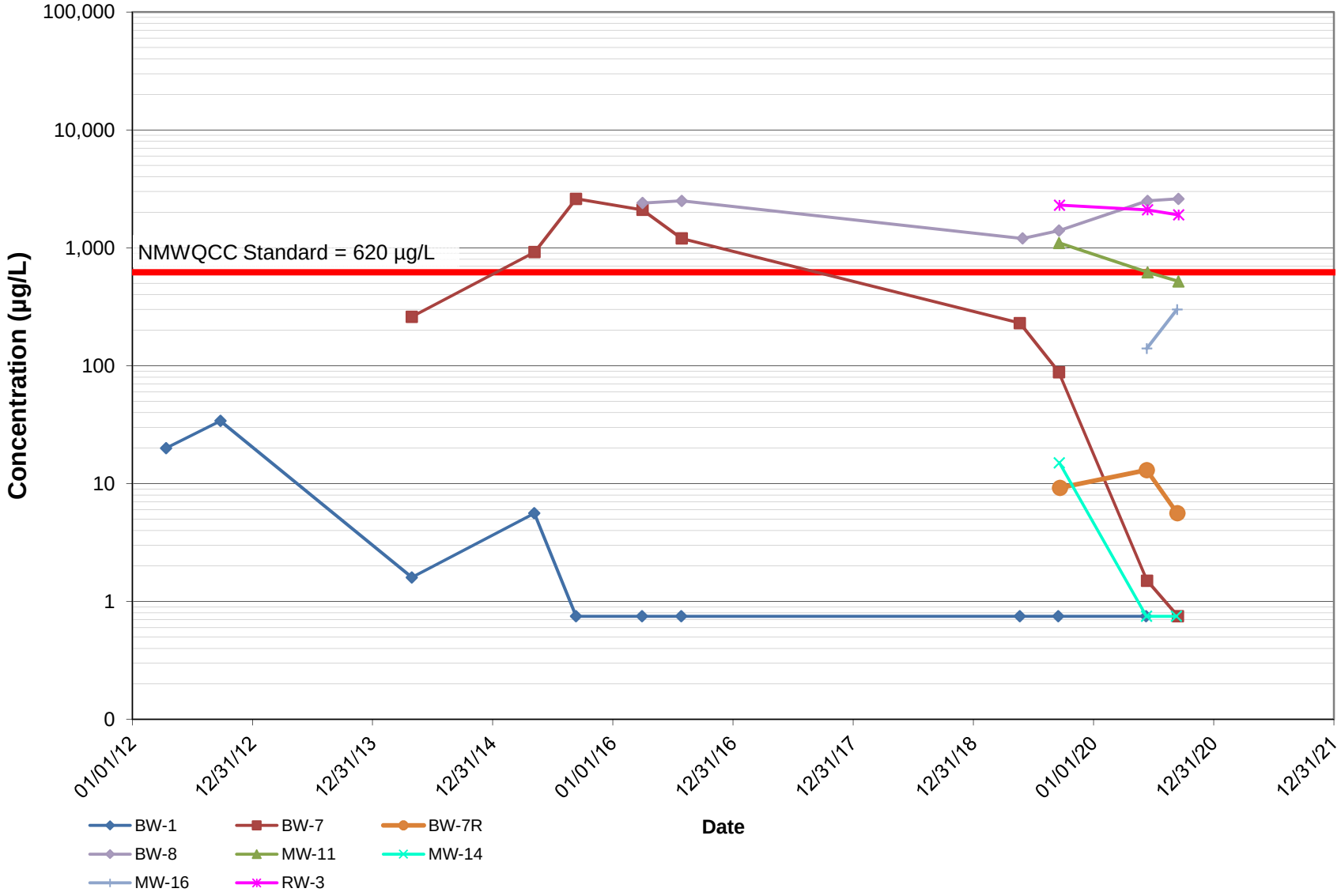
Former Y Station State Lead Site, Clovis, New Mexico



S:\Projects\DB18.1157_Former_Y_Station\Docs\Tables for Reports\Appx_Charts.xls Ethylbenzene

Total Xylene Concentrations

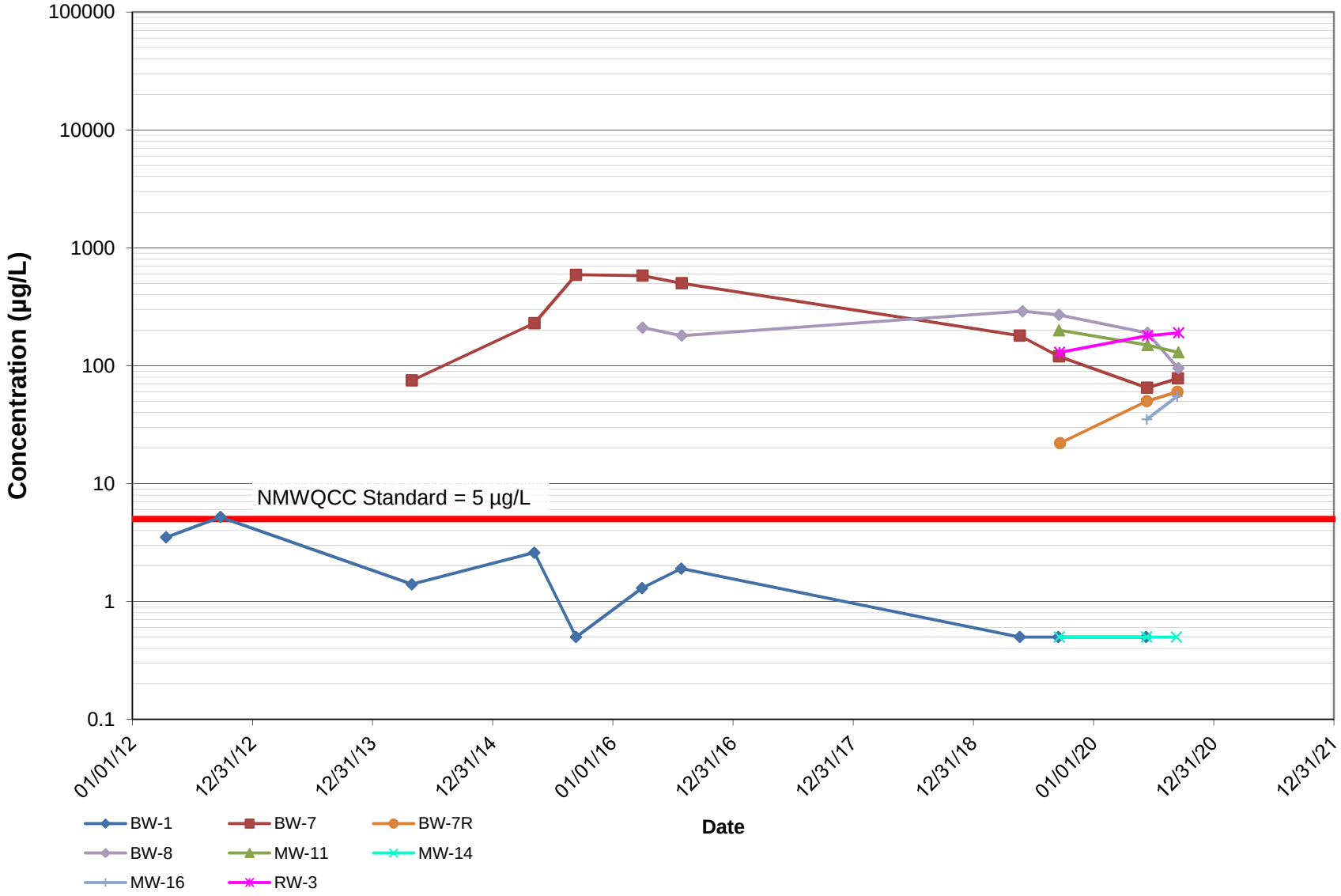
Former Y Station State Lead Site, Clovis, New Mexico



S:\Projects\DB18.1157_Former_Y_Station\Docs\Tables for Reports\Appx_Charts.xls Xylenes

EDC Concentrations

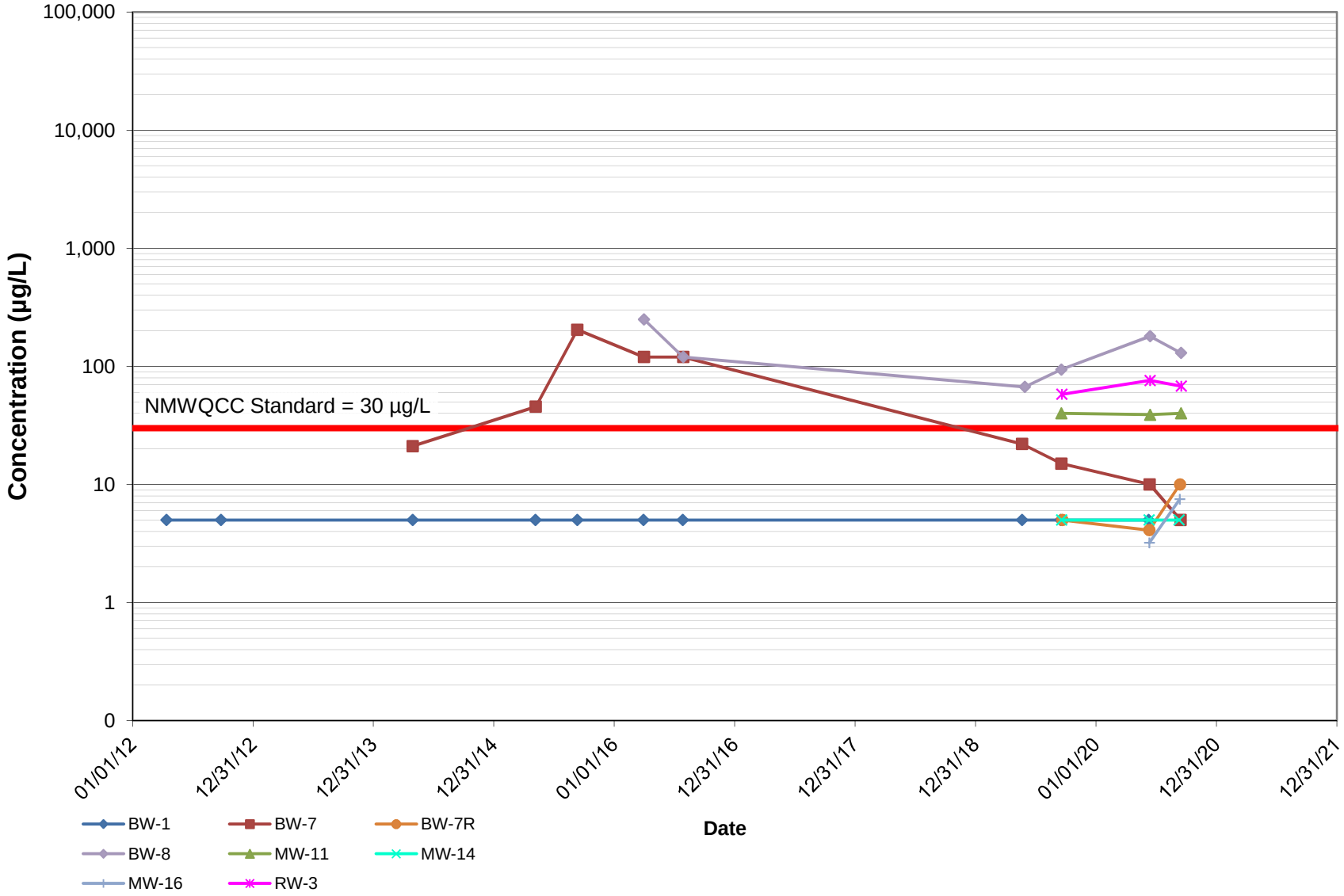
Former Y Station State Lead Site, Clovis, New Mexico



S:\Projects\DB18.1157_Former_Y_Station\Docs\Tables for Reports\Appx_Charts.xls EDC

Total Naphthalene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



S:\Projects\DB18.1157_Former_Y_Station\Docs\Tables for Reports\Appx_Charts.xls Naphthalenes